2021 Jewell County Fair

SMALL TOWN

THROWDOWN

JULY 8 – 11

Fair Book

HEAD SUPERINTENDENTS

FAIRGROUNDS & LIVESTOCK Natalie Frost, board chair
4-H & YOUTH Lesa Peroutek, treasurer
QUONSET OPEN CLASS Barb Mizner, Ione Shipley
4-H COORDINATOR Tonia Underwood, Post Rock Extension District

COUNTY FAIR OFFICE
807 N High
Mankato, KS 66956

EXTENSION OFFICE
307 N Commercial
Mankato, KS 66956
785-378-3174
DIVISION I 4-H/FFA NON-LIVESTOCK
- Citizenship ........................................ 9-10
- Clothing & Fashion Revue .......................... 10-11
- Cloverbuds ........................................ 11
- Club / Chapter banners, books .................. 11-12
- Dogs ................................................... 12
- Energy Management ................................ 12-13
- Entomology ........................................... 13-15
- Environmental Sciences ........................... 15
- Exploring 4-H ........................................ 15
- Family Studies ....................................... 15
- Fiber Arts ............................................. 15-16
- Foods & Nutrition ................................... 16-19
- Forestry ............................................... 19-20
- Geology ............................................... 22
- Health & Wellness ................................... 22
- Home Environment ................................ 22
- Leadership ............................................ 22
- Pets ..................................................... 22-23
- Photography ........................................ 23-24
- Plant Science crops & horticulture .......... 24-27
- Public Speaking .................................... 27
- Reading ............................................... 26-27
- Self Determined ..................................... 27
- Shooting Sports .................................... 27
- STEM (formerly SpaceTech) ..................... 27-40
- Visual Arts ............................................ 40-41
- Wildlife sports fishing ............................ 41
- Woodworking ....................................... 41-42
- FFA Ag Mechanics ................................. 42

DIVISION II 4-H/FFA LIVESTOCK
- Beef .................................................. 42-44
- Dairy .................................................. 44
- Goats ............................................... 44-45
- Horses .............................................. 45
- Other Animals ..................................... 45
- Poultry ............................................... 46
- Rabbits ............................................... 46-47
- Sheep .................................................. 47
- Swine .................................................. 47-48
- Round Robin Showmanship Contest .... 48
- Livestock Judging Contest ..................... 48

DIVISION III  SCOUTS
- Boy Scouts ......................................... 48-49
- Girl Scouts ......................................... 49-50

DIVISION IV OPEN CLASS
- Open Class General Rules ....................... 50-51
- Industrial Arts ...................................... 51
- Crafts ............................................... 51-52
- Crochet / Knitting ................................ 52
- Field Crops ......................................... 52-53
- Garden .............................................. 53-54
- Floriculture ........................................ 54-55
- Foods ............................................... 55-59
- Hand Work Needle & Art Work ............ 59-60
- Photography ....................................... 60-61
- Quilting ............................................. 61-62
- Recycling ........................................... 62
- Sewing .............................................. 62-63

DIVISION V OPEN CLASS ANIMALS
- Beef .................................................. 63
- Dairy .................................................. 63
- Goats ............................................... 63
- Horses .............................................. 63-64
- Other Animals ................................... 64
- Pets .................................................. 64
- Poultry ............................................... 64
- Rabbits ............................................... 64
- Sheep ............................................... 64
- Swine .................................................. 64-65
- Showmanship Contest ......................... 65

Exhibitor Numbers ................................. 66-68
Work Shift Schedules & Misc. Info inside back cover

Restrooms are located on the west side of the Deibert Building (fair office) and are overseen by the Jewell County 4-H clubs.

JEWELL COUNTY FAIR OFFICIALS
- Overall fairgrounds, fair board chair: Natalie Frost
- Fair board treasurer & fair office secretary: Lesa Peroutek
- Open class Quonset: Barb Mizner, Ione Shipley
- 4-H & youth exhibits in Quonset: Lesa Peroutek
- Premium sale finances: Lesa Peroutek
- Extension 4-H program coordinator: Tonia Underwood
- Extension office professional: Teresa Shipley

4-H COUNCIL FOOD STAND
Everyone is urged to patronize the food stand which is operated at the fairgrounds by the 4-H Council. Work schedules are chosen by the 4-H families. All families are to help in at least one, two preferably, shifts and to also furnish supplies as per letter sent. No homemade or home-baked pies or desserts will be allowed this year.

4-H CLUBS & LEADERS
- Mankato Eager Beavers – LaRae Colson, Karen Cockroft
- Webber Wide Awake – Sara Fuller, Jillian Worm

FFA CHAPTER & ADVISOR
- Rock Hills High School – Jenna Langer
2020 Jewell County Fair Plaques, Showmanship Gift Certificates, Belt Buckles

Alcorn, Pat & Doyle: woodworking
Atwood, Nola Bess Family: sheep showmanship, goat showmanship
Bouray, Theresa & Lawrence: senior visual arts & crafts
Bradrick, Susan: self-determined
Brodstone Memorial Hospital: junior photography
Colson, Ann & Stan: shooting sports, space tech
Dempsey, Jo & Wayne: senior beef showmanship, junior horse showmanship, crops
Farmway Credit Union: breeding gilt, pets
Frerichs, Twilla & Gene: energy management
Frost, Natalie & Wayne: reserve round robin
Goodheart, Lisa: overall horse showman
Greene, Janelle & Scott: clothing construction, poultry showmanship, family studies
Hancock, Doug & Karen: halter mare
Hesket- Bingham, Judy: junior foods, reading
Ideal Market: senior photography
J-Janes: leadership, secretary book
Jewell County Saddle Club: horse high points champion
Langer, Frank & Bonnie: junior rabbit showmanship
Lorence, Sheila & Dwayne: overall beef breeding, senior goat showmanship
Mankato Eager Beavers 4-H Club: reporter’s book
Manning, Daphne: catch-an-animal, food preservation
McDill & Vance Families: rabbit, overall rabbit showmanship

Mid America Livestock Exchange: junior poultry showmanship, senior sheep showmanship, market hog
Murray, Deb: goat breeding, senior horse showmanship
Odessa Homemakers: junior visual arts & crafts
Peroutek, Jim & Lesa: junior goat showmanship, senior poultry showmanship, market lamb
Peters, Elaine & Daniel: fiber arts
Railsback, Nadine & Frank: dog
Rannebeck, Barb: poultry champion
Rathbun, Gale & Tom: fashion revue clothing construction
Rock Hills FFA: round robin
Rowe, Sally: senior swine showmanship
Ryan, Joel Memorial: overall bucket calf
Shipley, Gary & Teresa: supreme market hog, junior swine showmanship
Shipley, Ione: junior beef showmanship, overall swine showmanship
Smith, Phyllis & Van: halter gelding
Spiegel, Janelle & Steve: junior sheep showmanship
Sweat, Deanna & Loren: fashion revue junior buymanship, floriculture, horticulture
T & L Trucking, Lisa & Todd Boyles: fashion revue senior buymanship
Thompson, Richard & Betty: market goat
Timber Valley Ranch - Sandy & Kendall Nelson: wildlife
Topliff, Donn, estate: overall beef showmanship
Underwood, Tonia & Stede: senior foods
Unruh, Rob family: senior rabbit showmanship
Warne, Dave Family: supreme market steer
Wilson, Jim family: market steer
2020 LIVESTOCK PREMIUM BUYERS

Agrex, Inc.
Aurora Cooperative
Ayers, Lance & Angela
B & H Ranch, Bill Roe
Bohnert Welding
/ Pioneer Feed
Boyles, Scott & Kristine
Bruning Land & Cattle,
Kris Bruning
C & W Farm Supply
Carlson, Robert & Jan
Carrico Implement
Central National Bank
Mankato
Citizens National Bank
CLX Trucking
Cloud County Coop
Courtland Journal
Davis Farms, Jean Davis
Doane Family Farms
Downs Vet Clinic
Esbon Ag Supply,
Kenny & Nick
Mizner
Farmway Credit Union
Figgins Farm, Carl &
Karen Figgins
Garcia Ranch
Greene, Norman &
Doris
Greene, Scott & Janelle
Hanel Veterinary Clinic
J & H Hay
J & H Service
Jerry Grove Land &
Cattle
Jewell County Farm
Bureau Assn.
Kiers Thriftway
Koss, Jody
Landmark Implement,
Smith Center
Lange, Corlene
Lorence, Dwayne &
Sheila
M & M Cattle, Cody
Murray
Malcom Flying Service
Mankato Livestock
Mankato Plumbing &
Appliance
Marsh Creek Farms,
Steve & Janelle
Spiegel
Megrue-Price Funeral
Home
Melby Mortuary
Meyer’s Aerial Service
LLC
Mid America Livestock
Exchange
Midway Coop
Nelson, Kendall &
Sandra
Ortman Insurance, Jason
Ortman
Oz Insurance, LLC
Paul Wilson, CPA &
Sara Reiter
Peroutek Farms
R Seed Plus, LLC
Railsback, Barbara
Randall Farmers Coop
Union
Russell Cattle Co., Jon
Russell
Shipley Farm &
Livestock
SMC Concrete &
Construction
Smith Center Vet Clinic
Spiegel, Nancy
Spring Creek Family
Farms
Superior Commodities
Swenson Meat
Processing, LLC
T & L Trucking, Todd
& Lisa Boyles
Tebow Plumbing Co.,
Inc.
Thompson’s OK Tire
Thummel Real Estate
& Auction
Tucker, Kathy
Underwood, Dewey &
Ruth
Vycke Garman Agency
Wyatt Construction
Zimmer, Roger
2020 Booster Members

Individuals
Baetz, Jason & Melody
Bingham, Judy Hesket-Broeckelman, Joan
Lorence, Dwayne & Sheila
Underwood, Deb

Businesses
Bourbon Trucking LLC
Jewell County Hospital
Jewell County Rural Health Clinic
T & L Trucking
Webber Wide Awake 4-H Club

4-H youth did not sell boosters in 2020 due to Covid 19.
4-H, FFA, Open Class, Scouts
Superintendent Instructions
Department information
☒A number is assigned to each department (see index for page number)
☒Names of all superintendents are listed
☒Scheduled judging times are approximate and will vary depending upon number of entries, so please be patient if your judge is working in several other departments
☒Specific rules or guidelines are listed if in addition to rules on pages
☒Number of 4-H members enrolled and number of plaques are listed per department

Superintendent Responsibilities
1. All superintendents plan to arrive at least 30 minutes prior to time your department exhibits are to be judged; begin by checking in the exhibits of department superintendents so all superintendents will be ready when exhibitors begin arriving. Superintendents are responsible for their department’s notebook and must accurately record information (the exhibitors name, number, exhibit placing).

On Tuesday, July 6: Open Class QUILTS
superintendents need to arrive at the Mankato Community Center by 8:00 a.m. to check in exhibits,
Open Class FOODS and 4-H PHOTOGRAPHY at 9:30 and 4-H FIBER ARTS, FOODS and CLOTHING/ FASHION REVUE at 1:00 - all other Quonset department superintendents: arrive by 7 a.m. on Friday,
July 9.

2. Make sure to introduce yourself and the department you represent to your judge. Your judge may be judging several departments so check with other department superintendents to become familiar with the judge’s schedule. For questions concerning your department’s judging guidelines, ribbon or plaque selection process (if you are unsure, please ask Tonia Underwood). Be sure the judge is aware of the time allowed for judging and as the department superintendent, you are responsible for assuring that all exhibitors are treated courteously and that the entire judging process is conducted in an unbiased manner. Judges may be seated at tables arranged near the center of the commons/Quonset. Superintendents are urged to assist each other to speed the judging process.

3. As exhibitors arrive, introduce yourself and make them feel welcome. For all departments that are conference judged (youth exhibitor is present when their entry is evaluated by the judge), check that youth have signed the registration sheet. Use the numeric order on the registration sheet as the order in which exhibits are judged. A parent and/or leader may accompany youth for conference judging and youth are encouraged to converse with the judge during conference judging. Adults are asked to refrain from talking until the judge has placed the exhibit.

4. During the judge's evaluation, offer to write comments the judge may want written, use the section of the entry card that will remain with the exhibit or on comment cards. Be aware of the time and inform the judge if too much time is being taken. Make sure that there is fairness in all aspects of the judging environment.

5. Accurately record the placing for each exhibit in the department notebook and double check that each entry card has the correct placing marked. News releases and premium amounts are based on information recorded in the department notebook. 2-sectional cards are used for entries displayed in the Quonset; attach one section with the ribbon to the exhibit. Alphabetize the portion marked for office use and turn in this card section with your notebook to the fair office.

6. When all exhibits have been judged, double check that all award decisions and selections have been finalized. Also make sure the judge has completed an expense sheet. If your judge is finished judging and is ready to leave, accompany them to the fair office and have them pick up their check. Please express appreciation to the judge and be sure that any suggestions made by the judge have been written on the evaluation sheet that is in your notebook.

7. Once all exhibits are judged, attractively display all exhibits, making sure that the correct ribbon is securely attached with one section of the entry. Take care that all exhibitor's names and the ribbons are clearly visible.

8. Comments from everyone who helped in the judging process are valued and evaluation forms are placed in department notebooks for each superintendent to record any comments or suggestions you may have regarding any portion of the judging process. One comment sheet per department is sufficient. Before returning your department notebook to the fair office, double check that all exhibit placings are recorded, any special recognitions are noted, and that the comment form is in your notebook.

9. Questions and comments will be discussed at the pre-fair superintendents meeting/departement set up to be held at the fairgrounds on Tuesday, July 6 at 5:30 p.m. You will be able to inspect your department area and to take care of the setup and arrangement of tables, display boards, show racks, pen locations, minor repairs, painting, dusting, & getting ready for exhibits.

10. One person from each department is to assist with exhibit check out on Sun. evening, July 11, 4:30-5:30. Mark record that exhibits have been officially released from display by initialing the release box in your department notebook.

PAGE 4
Division I - 4-H / FFA NON-LIVESTOCK
Check in: Friday, July 9, 7:30-8:30 a.m. - judging begins at 8:00 a.m. Check out: Sunday, 7/11 at 4:30 p.m.
Exception - fashion revue, clothing, foods, photography & fiber arts judged Tuesday, 7/6 at Mankato Community Center

#1 Citizenship/ #3 Cloverbuds/ #9 Exploring 4-H/ #17 Leadership: Julie Cady, Kayla & Griffin Dunstan

#2 Clothing & Fashion Revue: Betsy Reinert, Kristin & Allison Underwood (Sara Fuller – only on pre-judging day)

#4 Club/Chapter entries (banners, books, displays)/ #14 Geology/ #16 Home Environment/ #23 Self-Determined/ #26 Visual Arts (ceramics, crafts): Betsy & Faith Reinert, Phil Menhusen, Sara Fuller, Elaine Cockroft

#5 Dog: Karen Cockroft

#6 Energy Management/ #24 Shooting Sports/ #25 STEM/ #27 Wildlife/ #28 Woodwork/ #29 FFA Ag Mechanics: Gary Shipley, Mike & Lenden Worm, Jake & Aaron Underwood

#11 Fiber Arts (crochet, knitting, needle arts, quilting): Karen & Haylee Cockroft

#12 Foods: Pat Zentz, Abbey Schleifer, Jacquelyn Long, Derrick Dooley, Jayden Jackson, Jessica, Chloe & Catelyn Rothchild

#19 Photography: LaRae & Waysen Colson, Coral Colson, Elizabeth Saathoff

#20 Plant Sciences (crops, floriculture, & horticulture): Stede & Nelson Underwood

Division II - 4-H / FFA LIVESTOCK

#30 Beef: Natalie, Whitney & Blaine Frost, Bryan Reinert, Jeff Cady, Jared Gray, Brad Cockroft

#32 Goats/ #37 Sheep: Dwayne Lorence, Stede & Nelson Underwood, Brad Cockroft, Jared Gray, Bryan Reinert, LaRae & Waysen Colson

#33 Horses: Bryan & Faith Reinert, Sara Fuller, Gunn family, Dunstan family

#49 Poultry & #50 Rabbits: JennaLee Harris, Jacquelyn Long, Derrick Dooley, Jayden Jackson

#52 Swine: Ervin, Aaron & Jake Underwood, Jeff Cady, LaRae & Waysen Colson, Coral Colson, Sara Fuller, Natalie, Whitley, & Blaine Frost

#53 Round Robin: Natalie Frost, Stede Underwood, Bryan Reinert, Ervin Underwood

#54 Livestock Judging Contest / Beef Carcass Contest: Natalie Frost, Jenna Langer

Division III - SCOUTS
Check in: Fri. July 9 7:30 a.m. judging: 9:00
Exhibit check out: Sunday, July 11 at 4:30 p.m.
#30 Boys / #31 Girls: Sara Grout, Jennifer Walker

Division IV – OPEN CLASS
Check in Thursday, July 8, 6:00-8:00 p.m. or Friday, July 9, 7:30 a.m. judging: 9:00
Exception is quilts & FOODS: judged Tuesday, July 6 check in: 8:00 (9:30 for foods) at Mankato Community Center- all quilts to be displayed during the fair

#32 Industrial Arts: Gary Shipley, Mike & Lenden Worm, Jake & Aaron Underwood

#33 Crafts / #34 Crochet / Knitting: Elaine Peters, Karen Boden

#35 Field Crops / #36 Garden: Dee Reed, Sharon Brinkworth

#37 Floriculture: Lisa Goodheart, Judy Bingham

#38 Foods: Doris Worm, Deb Underwood

#39 Handwork / #42 Recycling / #43 Sewing: Ione Shipley, Susan Greene

#40 Photography: Daphne Manning, Lisa Boyles

#41 Quilting: Karen Boden, Joan Broeckelman, Eula Silsby

Division V – OPEN CLASS LIVESTOCK
Superintendents same as 4-H departments: beef, dairy, goats, pets, poultry, rabbits, sheep, swine

4-H and Open Class Food Sale: 2:00 p.m. Tuesday, July 6 at Mankato Community Center coordinator: Deanna Underwood
CURRENT FAIR BOARD
(First appointment of directors by county commissioners – 11/03)
2019-21 Bryan Reinert
Jeff Cady
Zach Colson
2020-22 Natalie Frost, ch
Josh Bohnert, vc
Tyler Marr
2021-23 Lesa Peroutek, treas
Lisa Goodheart, sec
Barb Railsback
Jenna Langer

Kansas 4-H Events  CODE OF CONDUCT
As a participant in Kansas 4-H Events, you have the responsibility of representing the Kansas 4-H program to the public. You are expected to conduct yourself in a manner that will bring honor to you, your family, as well as to 4-H. To do that, you must:
1. Conduct yourself and your project work in a manner that is trustworthy, respectful, responsible, fair, caring and in good citizenship.
2. Be responsible for your actions by following the rules and being accountable. This includes being in assigned program locations/sessions, abiding by deadlines, times and housing arrangements. If you are unable to participate or need assistance, notify those in charge of the event / program.
3. Treat yourself, other people, animals and property with respect, using good manners, dressing appropriately and by not using profanity. You will be personally responsible for any damage caused as a result of your behavior. Know that the use of tobacco, alcohol, and non-prescribed drugs by youth is illegal.
4. Demonstrate caring for people other than yourself. Know that harassment of any type is illegal and prohibited at all 4-H events.
5. Be a good citizen by participating fully, and helping those around you have positive experiences.

The Jewell County Fair Board of Directors, K-State Research and Extension - Post Rock Extension District Agents, and 4-H community clubs have formed a grievance committee to settle issues of conduct involving youth. Any youth unable to fulfill the code of conduct will have his/her conflict resolved through this committee. Those who find themselves unable to conduct themselves within the guidelines listed above may expect:
A. to explain their actions to the adults in charge
B. to accept the consequences of their actions
C. to have the adults in charge work closely with parents/guardians, extension personnel, and others to see that actions taken, in case of unacceptable behavior, are appropriate and logical consequences for all concerned.

THANK YOU for giving your time to be a department superintendent!
You provide one of the most important duties of the entire county fair and without you it would be almost impossible to conduct a successful county fair. We always welcome your comments and suggestions. We hope your experiences will be very rewarding and that you will continue to be a positive player on our county fair team.

GENERAL AWARD GUIDELINES
Ribbon Identification and Guidelines
4-H/FFA
Grand champion rosette - dark purple with 2 streamers
Reserve grand champion rosette - light purple with two streamers
Champion rosette - dark purple with one streamer. (livestock classes only)
Reserve champion rosette - light purple with one streamer (livestock only)
Purple, blue, red, white - 8" in length by 2" in width

Open Class and Scouts
Best of show rosette - dark purple single streamer ribbon
Blue, red, white - 8" in length by 2" in width ribbons

Ribbons are to be awarded upon the completion of competition (no ribbon awarded to any exhibit that remains in competition)
Earning a rosette ribbon is possible for every exhibit
Grand and reserve grand champion rosette ribbons are awarded in 4-H / FFA departments and in each division, if divided into age divisions
Best of show rosettes are awarded in all open class and scout departments
Champion and reserve champion rosettes are awarded only in breed and halter classes

Department Award Guidelines
• Awards are sponsored by donors, face plate changes are paid for by fair board
• Awards are given to the best exhibit in 4-H/FFA departments, exhibit quality must be deemed worthy; non-livestock award winner must be a top purple and livestock award winner must be a top blue or at the judge’s discretion.
• Award may be given in each 4-H/FFA age division, if the department has three (3) members enrolled in each age division, departments with less than this minimum enrollment will have one department award.
All awards will be presented at the Awards Program, Sunday, July 11 following the Fashion Revue at 6:00 p.m.

Ribbon Premium Guidelines
Exhibitors will be paid premium money on the basis of ribbons awarded: $2.50 - rosettes $2.25 - purple $2.00 - blue $1.50 - red $1.00 white

*Poultry, Pet & Dog REGISTRATION required by July 1*

HERDSMANSHP AWARD: see page 42

LIVESTOCK
◆ Departments by species: beef, dairy, goat, horse, other animals, poultry, rabbit, sheep, swine
◆ Subheadings are phases within a department (i.e. market)
◆ Classes are exhibited by either age or weight
◆ A maximum of three market animals per department may be exhibited
◆ A maximum of two breeding animals per class is allowed, exception rabbits and poultry

Livestock Sale Premiums:
Livestock exhibitors will receive the amount of money bid at the livestock premium sale. Bidders will pay the fair board, then the board treasurer will distribute the donated money to livestock exhibitors.

Animal Ownership Verification Requirements:
1. All market animals must be weighed by designated dates to be eligible to compete in the daily gain contest.
2. All market animals exhibited in the 4-H/FFA or Open division must be owned and in the possession of exhibitor by May 1 of current year. A 4-Her may exhibit and show a non-market animal that they do not own if they have worked with and cared for that animal.
3. Every animal exhibited in the 4-H/FFA Division must be properly identified according to Kansas 4-H and Post Rock Extension District policies.
   Horse: ID paper due May 1 of current year
   Poultry: leg band due at fair check-in
   Rabbit: legible tattoo & ID paper by May 1 of current year
   Market Beef, Swine, Sheep, Goat: tagged at county weigh-in or verified by May 1
   Bucket Calf, Cow/Calf Pair: cow in the pair must be tagged by May 1
   Breeding Animals: All breeding animals must be tagged by May 1 of the current year. If the animal has been officially tagged in a previous year, the identification must be reported to the extension office by May 1. All purebred-breeding animals must be identified with registration papers at fair check-in.

Animal Health Requirements:
1. All animals must be in good health to be exhibited in any division of the fair. Before any animal is permitted to be unloaded, a veterinarian will verify and confirm the health of the animal.
2. Any animal health concerns that arise during the fair will be addressed by the superintendent.
3. A state-approved lab tester must conduct all tests.
4. After animals are penned, the 4-H/FFA owner is responsible for grooming the animal & cleaning the pen(s).

CATTLE: Kansas is recognized as a Brucellosis free state, animals of Kansas origin are not required to be tested for brucellosis; any animal without this status must be tested; Kansas is also recognized as a Tuberculosis free state, cattle and goats originating in Kansas are not required to be tested for Tuberculosis

HORSE: All horses must have an official health certificate stating animal is free of any contagious, communicable, or infectious diseases (issued within thirty (30) days of exhibit) and a VS 10-11 form indicating a negative EIA (Coggins) test within the previous 12 months.

POULTRY: All poultry exhibits will be blood tested at the county fair this year on Thursday, July 8.

SWINE: Animals of Kansas origin are not required to be tested for pseudo rabies or brucellosis; any animal without this status must be tested.

Specific Rules
▼ It is not acceptable for any coaching to be done from the sidelines during any time an animal is being shown.
▼ Stalls must be kept clean and orderly at all times and superintendents have the authority to notify any exhibitor when improvement is needed to keep animals, pens, and aisles clean and safe.
▼ No tranquilizers may be used on animals.
▼ Bedding used for animals is the responsibility of the animal owners.
▼ All animals that will not be shipped, may be removed from the fairgrounds following the premium sale on Sun.
▼ All pens are to be cleaned when the animals are removed and checked out.
▼ Animal pens not cleaned by Noon on cleanup day will be assessed a $10.00 fee.
▼ There will be adult supervision in all livestock barns.
Showmanship Rules
1. All exhibitors must wear long pants, appropriate shoes – (no sandals, flip flops, open toe or heel shoes) and an official county fair t-shirt (need not be current year) or appropriate show attire for the horse show.
2. All animals brought to the fair must be tame and safe around people and must have been trained so that youth can handle and move animal from barn to show ring. Any animal deemed unsafe will not be judged.
3. Youth can only show one animal at a time. If youth have more than one animal per class, another youth may show the second animal. One showman per animal in the ring in all classes.
4. Only if the youth is present and with permission of department head superintendent, may a parent assist a junior 4-H member in fitting an animal for show. In the event a parent does not have prior permission, the superintendent may rule that this animal may not be shown and any premium money, ribbon, or plaque be forfeited. A parent cannot assist a Sr. 4-H member.
5. Except in extreme cases and only with the permission of the dept. head supt., may a parent show an animal.
6. Judging of showmanship classes will be done before the animals are judged.
7. Showmanship ages for 4-H/FFA livestock departments: junior (ages 7-12) and senior (age 13 and older); open class ages are youth (18 & younger) adult (19 and older).
8. The top two individuals (Grand & Reserve Champion) in 4-H/FFA showmanship age divisions will compete for the two showmanship positions per species in Round Robin Showmanship.
9. A list of finalists for Round Robin Contest is to be compiled by superintendents and reported to the fair office and extension agent. Only Grand and Reserve Champion showmen are eligible to compete in Round Robin.
10. Livestock exhibitor will be evaluated on grooming and showmanship techniques.
11. Animal is presented in its natural conformation and structure without alteration or modification. Alteration or modification shall be defined to include any surgical, chemical, electrical, or other change for cosmetic purpose, save only branding, tattooing, foot trimming, or dehorning. The act of artificially filling animals, internally, which would include stomach pumping, drench tubes, or any other method (per esophagus) is prohibited. Silicone injection or other injection for cosmetic purpose shall be prohibited. Anabolic steroid use shall likewise be prohibited and any animal testing positive for anabolic steroid or diuretic use shall be presumed to be altered and modified.

Showmanship Judging Criteria
Preparation of animal for showing - 50%
1. control of feet  2. trimming of head, ears, hair, horns, etc.
3. washing and cleanliness  4. condition of coat, including gloss, non- objectionable materials

Showing of animal - 50%
5. control of animal by exhibitor  6. poise and coolness of exhibitor  7. ability to stand or move the animal as requested by the judge  8. skill in showing including: ■ continuous attention, ■ keeping animal placed to advantage, ■ being continuously alert

Catch-An-Animal Guidelines:
- Youth must be 12 years or younger on January 1 of current year.
- Youth may not previously have taken this project.
- Youth may receive one donated catch-an-animal per species during their eligibility.
- Catch animals sold at Premium Sale are not eligible for exhibit in a future county fair by the same youth.

Daily Gain Competition: Only market animals are eligible for daily gain competition. Animals must comply with weigh-in dates to compete.

4-H / FFA General Regulations
1. Only bona fide Jewell County 4-H / FFA members are eligible to exhibit in Division I (Non-Livestock) and Division II - (Livestock); girl & boy scouts exhibit in Division III, all youth may exhibit in Division IV (Open Class), Division V (Open Class Livestock), and Division VI (Contests)

4-H Age Divisions: J = junior (7-12 years), S = senior (13 and older). Exception for fashion revue and judging contests: J = 7-13, S = 14 and older.

2. Entry cards are required for all exhibits and contests.
3. Violation of any established regulation will result in forfeiture of any prize, ribbon, and premium.
4. Any exhibit entered late will be dropped one ribbon placing or may not even be judged.
5. Parents are responsible for their children at all times including all day and night hours spent associated with any county fair activity located at the county fairgrounds, barns, buildings, or any facility used for county fair activities.
6. The fair board, department superintendents, extension agents, office staff, council, board member, or county commission will not assume any responsibility for any type of loss or accident associated with any county fair activities or events.
7. To exhibit, youth must abide by Kansas 4-H Events Code of Conduct and decisions made by the Jewell County grievance committee will be regarded as final for any disputed issue.

8. Exhibits must be entered by member, except in case of family emergency or if youth is attending a 4-H/FFA activity.

9. In accordance with the regulations adopted by the Fair Board of Directors absolutely no alcoholic or cereal malt beverages may be consumed or carried on the premises. Violating exhibitors will have all entries disqualified and non-exhibitors will be escorted from the premises - rule will be strictly enforced.

10. If property owners or others desire protection for injury or damage from fire or other causes, arrangement and payment for such insurance is the responsibility of those individuals.

11. All 4-H members must work at fair set-up & clean-up & all members 8 and older must work at least one food stand shift to receive your fair premiums. Exceptions must be approved by extension office.

12. 4-H exhibitors (individuals or group) must avoid using copyrighted materials whenever possible by originating his or her own work. A member or group should use with caution, a copyrighted and/or trade-marked product or service (a brand name, label, or product); the intent of using the copyright or trade-mark materials for educational purposes such as an exhibit, educational poster/display or public presentation is acceptable under the “fair use” (legal use) provision. “Fair use” is a provision of the current copyright law that allows reproduction without payment or permission of limited portions of a copyright protected work for educational and other public interest purposes. A copyright and trademark are legal methods used by writers, artists, corporations, and others to protect their original work. Protected items may range from books to music, logos to computer graphics. Copyrighted and/or trademarked materials utilized in banners, displays, demonstrations, posters, or other activities for endorsement or promotion instead of educational purposes will be disqualified and will not be displayed or receive ribbons or premium.

Kansas State Fair Entries: Purple ribbon exhibits entered by youth age 9 (1/1/21) are eligible to enter at Kansas State Fair, if there is a state fair class. All eligible Jewell County exhibits will be pre-entered for Kansas State Fair. If NOT WANTING to enter at state fair, member MUST NOTIFY the extension office on or before August 6.

**Division I - 4-H/FFA Non-Livestock**

Display / Notebook / Poster Guidelines
- Select durable materials to withstand county fair conditions
- Poster size: maximum size 22” x 30”
- Display space: maximum size is a 4’ wide x 3’ tall tri-fold. No card table displays are allowed.
- Notebook: must contain story and other supporting materials but no record sheet should be included
- Copyrighted materials: see general regulations rule 12, page 9

Judging criteria: 50 points - Information
30 points - General appearance
20 points - Organization

Ribbon placing will be based on evaluation of:
- Stopping power
  Is the main idea specific?
  Is the idea presented clearly, simply, forcefully?
- Interest, holding power
  Does exhibit give the observer additional facts in a clear, concise, informative way?
- 4-H project application
  Is subject matter an effective showcase?
- Mechanical power
  Correct letter size, pleasing color combination, appropriate symbols and models?
- Personal growth
  How much knowledge was gained by exhibitor, enthusiasm shown, knowledge shared?
- Educational value
  Is knowledge shared?

**Department 1 Citizenship**
Enrollment: 10 jr, 7 sr (2) awards
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit five (5) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. Exhibit must relate to project work completed during the current year.

Me, My Family & Friends: poster, notebook, or display
Class 1000J by 7-12 yr old member
Class 1000S by 13 and older member

My Neighborhood: poster, notebook, or display
Class 1001J by 7-12 yr old member
Class 1001S by 13 and older member
My Clubs & Groups: poster, notebook, or display
Class 1002J by 7-12 yr old member
Class 1002S by 13 and older member

Public Adventures: poster, notebook, or display
Class 1003J by 7-12 yr old member
Class 1003S by 13 and older member

My Heritage: poster, notebook, or display
Class 1004J by 7-12 yr old member
Class 1004S by 13 and older member

My Government: poster, notebook, or display
Class 1005J by 7-12 yr old member
Class 1005S by 13 and older member

The World Around Me: poster, notebook, or display
Class 1006J by 7-12 yr old member
Class 1006S by 13 and older member

Peoples & Customs of the World: poster, notebook, or display
Class 1007J by 7-12 yr old member
Class 1007S by 13 and older member

**Department 2  Clothing and Textiles & Fashion Revue**

**Construction:** 1 jr, 1 sr  *(1) awards*

**Buymanship:** 3 jr (ribbons only, no plaque or rosettes)
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit four (4) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. Articles, garments, outfits may have been used/worn but should be carefully laundered or cleaned before being exhibited. Exhibits may be placed in clear plastic bags for protection to and from State Fair. Bags will be removed for clothing display purposes. Items should be hung on swivel or wire hangers.
6. Identification Labels (no straight pins may be used to attach these items): a) Type or print on 3” x 2½” piece of cloth: Class Number, County or District, Name. b) Sew labels on inside of garment (back of neck, center back of waistband, or left end of apron band). Label each piece.
7. Pre-cut kits are acceptable for all clothing classes. All articles/garments must be finished for use.
8. Since care labels are not always available, NO care label will be required; however, 4 H members should know how to care for fabrics they purchase.
9. Garments made for animals (i.e. dog, cat) may be exhibited but may not be entered in fashion revue.
10. Bring all patterns used in making an exhibit.
11. An article is an item constructed by hand or machine, including, but not limited to: pin cushion, home decorator item (wall hanging, pillow or curtains), tote bag, travel bag, lingerie case, wearable fiber art to embroidery or appliqué on items made, caps hats, scarf.
12. Exhibits must be displayed at county fair and checked in with superintendents by 9:00 a.m. on check-in day.
14. Buymanship only – 1 entry in each of the four seasons – fall, winter, spring, and summer.

**CLOTHING CONSTRUCTION**

**Article, garment, outfit**
Class 1008J by 7-12 yr old member
Class 1008S by 13 and older member

**Poster, notebook, display, or work kit**
Class 1011J by 7-12 yr old member
Class 1011S by 13 and older member

**CLOTHING BUymanship**

**Article, garment, or outfit**
Class 1010J by 7-12 yr old member
Class 1010S by 13 and older member

**Poster, notebook, display, or work kit**
Class 1011J by 7-12 yr old member
Class 1011S by 13 and older member

**RECYCLED CLOTHING PROJECT:** An item made of at least 50% recycled material (recycled means reusing an existing item in a new way). Could be remaking/redesigning a garment, re-purposing a clothing item for a new use, etc. Must include sewing of some kind. An index card (no larger than 4” x 6”) MUST accompany entry describing the recycled materials and how they were used in the item.

Class 1012J by 7-12 yr old member
Class 1012S by 13 and older member

**Fashion Revue**

**Construction:** 1 jr, 1 sr  *(1) award*

**Buymanship:** 3 jr  *(1) award*

Participants model only what can be worn. Garments cannot be carried. Contestants should use good sense in choosing items that are appropriate to be modeled publicly.

*NOTE: Fashion Revue senior age is 14+.*
1. All general regulations apply.
2. Fashion revue: members enrolled in clothing, crochet, knitting, and quilting may compete.
3. Entry card required for each fashion revue entry.
4. Exhibit may have been used/worn, but shall be carefully laundered before being exhibited.
5. Participants should provide a written script to the Extension Office. Scripts should be 4-6 sentences in length. Write it exactly as you want it read during the public revue. Include member’s name and local unit somewhere in the first sentence. Some descriptors may include: fabric, colors, patterns, where you will wear the outfit, what you like best, etc. Feel free to include hobbies and other info about yourself.
6. Participant may model only what can be worn. Garments cannot be carried. Contestants should use good sense in choosing items that are appropriate to be modeled publicly.

7. Majority of the outfit commonly considered an outer garment (dress, jacket, skirt, pants, coat, etc.) must be constructed by youth, pieces worn with outfit (blouse, shirt, sweater) can be purchased.

8. Member enrolled in project may enter four (4) fashion revue exhibits per class.

9. All garments/outfits modeled must also be entered in either clothing construction or buymanship classes.

10. All written scripts, cost sheets, and entry cards are DUE in extension office by July 1st.

11. Exhibitors must sign in 1:00-1:30 p.m. for modeling.

12. Exhibits worn in fashion revue must be displayed at county fair and checked in with superintendents by 9:00 a.m. on check-in day at Quonset.

Standards for exhibitor:
1. to understand and demonstrate a wardrobe plan.
2. to understand how selected garment(s) and accessories enhance their personal/public presentation.
3. to understand the value of this garment/outfit and how it fits into the family’s clothing budget.
4. to be able to describe how they have accepted personal responsibility in caring for their garment/outfit.
5. to visually demonstrate personal fitness and grooming and clothing/accessories comfort and safety.
6. to be able to describe how they cared for the garment/outfit and how it fits into their wardrobe plan.

SCORE CARD
General appearance & knowledge 70%
posture, poise, personal grooming, garment condition, fit of garment, modeling skills, accessories used to create a total look, knowledge of wardrobe plan

Construction appearance & life cycle knowledge 30%
quality of construction, appropriate finishing techniques used, plan for clothing care and life cycle, able to calculate value per wear

Fashion Revue -Construction:
Class 1013J revue construction jr 7-13 years
Class 1013S revue construction - sr 14 & older

Fashion Revue -Buymanship:
Class 1014J revue buymanship jr 7-13 years
Class 1014S revue buymanship sr 14 and older

Department 3  Cloverbuds
Enrollment: 2 (pre-4-H age youth) green participation ribbons ONLY (no rosette or plaque) Cloverbud may display five (5) entries completed during current year per project. NO livestock can be entered in Cloverbud.
Class 1015 cloverbud display item

Department 4  4-H Club / FFA Chapter
Banner /booth /officer books /project display / fair theme
Check in: banners 7/6, at extension office
booth, books, displays 7/9, 7:30 a.m.
one (1) FFA chapter, two (2) 4-H clubs
(2) awards: secretary book, reporter book

Banners: will NOT be displayed at state fair.
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. One class entry per club/chapter.
4. Copyrighted material: see general regulations rule 12, page 9.

NOTE: may want to incorporate fair theme.

Banners must be:
a. A minimum of 12 and maximum of 16 square feet, with a minimum of 3 feet on one side.
b. Two (2) dimensional display, depicting one idea.
c. Hung on a dowel, strong enough to support the banner, each end of the dowel must have a chain six inches long, the other end of the chain connects to "S" hook which will permit the banner to be suspended by the chains on the wire, banners mounted any other way will not be displayed due to technical problems.
d. Materials used must be non-flammable and permit the banner to be folded or rolled without damaging the display; 3-dimensional objects may not be attached to the banner.
e. To front lower left-hand corner, attach label with club name and county, lettering 2" in height, names of members are optional, water-proof ink prevents smearing and is recommended for the label.

Booths will be:
a. Lattice board for sides and back with 1 table for display.
b. Same judging criteria as banners.

Banner and booth judging criteria:
1) 40% educational value
2) 20% appearance
3) 20% interest and originality
4) 20% quality of display materials

Class 1016 4-H/FFA banner
Class 1017 4-H/FFA booth

OFFICER NOTEBOOKS: evaluation based on: neatness, completeness, accuracy of current year’s work; see page 10 - notebook, display & poster judging criteria.

Class 1018 4-H/FFA historian book
Class 1019 4-H/FFA project display
Class 1020 4-H/FFA project notebook
Class 1021 4-H/FFA reporter book
Class 1022 4-H/FFA secretary book
FAIR THEME: evaluation on how exhibit uses the current fair theme to promote the fair.
Class 1023J Fair Theme, any item
Class 1023S Fair Theme, any item

Department 5 Dogs
Judging: Tuesday, July 27 in Osborne, KS at Post Rock District Dog Show except educational exhibits judged on Friday, July 9 in Quonset.
Enrollment: 2 sr, 2 jr
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit five (5) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. Exhibit must relate to project work completed during the current year.
Poster, Display, or Notebook
Class 1026J by 7-12 yr old member
Class 1026S by 13 and older member

Department 6 Energy Management
(Electric, Small Engine, & Alternative Energy)
Enrollment: 2 sr (1) awards
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. Items that have been in use should be cleaned for exhibit.
6. A sheet of operation instructions must be furnished for any exhibit that is not self-explanatory.
7. Exhibit must be operable using only 110 or 120V AC or Battery power. If battery power is required, batteries must be furnished.
8. Any project with a complexity of size of electronics must have (a) instructions for assembly and use and (b) equipment available at the time of judging for actual testing of the exhibit.
9. No hand dipped solder may be used on exhibits.

ELECTRICAL/ELECTRONICS
AC Electric Projects: Electric projects with a 110 or 120 V alternating current (AC) power source. Some project examples are household wiring demonstrations, small appliances, extension cords, trouble lights, indoor or outdoor wiring boards, or shop lights. Projects may be a restoration or original construction. The project must be operational and meet minimum safety standards. AC projects must be 110/120 V, no 240 V exhibits are allowed, and must be constructed such that the judges have wiring access to examine the quality and safety of workmanship.
Class 1027J by 7-12 yr old member
Class 1027S by 13 and older member

DC Electric Projects: Electric projects with a battery or direct current (DC) power source. This class includes electric kits or original projects. This class also includes demonstration DC powered projects. Examples include: wiring two or three way switches, difference between series/parallel lighting circuits or wiring doorbells switches. All DC electric projects must include batteries supplied by 4-H’er. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.
Class 1028J by 7-12 yr old member
Class 1028S by 13 and older member

Electronics Projects: Electronic projects with a battery or direct current power source. This class includes electronic kits or original projects. Examples include radios, telephones, toy robots, light meters, security systems, etc. May be constructed using printed circuit board, wire wrap, or breadboard techniques. Include instruction/assembly manual if from a kit. Include plans if an original project. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.
Class 1029J by 7-12 yr old member
Class 1029S by 13 and older member

Educational Displays and Exhibits: The purpose of the educational display and exhibit is to educate the viewer about a specific area of the 4-H electrical or electronics project. The display or exhibit should illustrate one basic idea. This class includes any educational displays, exhibits or science fair projects which DO NOT have a power source, i.e. exhibits, posters or displays of wire types, conduit types, electrical safety, tool or motor parts identification or electrical terminology. Educational displays and exhibits must be legible from a distance of four feet, using a maximum tri-fold size 3’ x 4’.
Class 1030J by 7-12 yr old member
Class 1030S by 13 and older member

SMALL ENGINES
All exhibits should involve engines smaller than 20 horsepower. Displays are limited to 4’ wide and 4’ deep—both upright and floor displays.
Display: Exhibit a display, selecting one of the following options: 1) a display identifying different engine or lawn and garden equipment parts or a display showing the function of the various engine or lawn and garden equipment parts; or 2) a display identifying and explaining the function of different special tools needed for small engine work; or 3) a display illustrating and providing the results of any one of experiments that are included in the project books. No complete engines, lawn tractors, tillers, chainsaws are permitted for display. Maximum tri-fold size is 3’ x 4’.
Class 1031J by 7-12 yr old member
Class 1031S by 13 and older member
5. 4-Hers may choose to use one of two taxonomies:
   - Option A: As printed in "Insects in Kansas" book, or
   - Option B: As printed on the "Insects in Kansas Book: 2016 Revised Taxonomy", which follows

www.bugguide.net

6. Each exhibitor is required to identify each box with two identification labels bearing Exhibitor’s name, county or district, the collection class 4-H’er is enrolled in and statement of taxonomy used. One label goes in the upper left corner of the box (inside) and the other on the lower right corner of the box (outside). Arrange specimens in the box so the box can be displayed lengthwise.

7. The number of orders, specimens (and families where required) must be included on both of the exhibitor’s box identification labels. Only one adult insect per species can be used in the Collection Boxes and NoteBook Classes, unless labeled as male or female and correctly identified.

8. Arrange specimens in groups or rows parallel to the short sides of the box. Species are to be arranged by Order in the box, then Family where required.

9. Two labels should be centered on the pin beneath each specimen. First (closest to the specimen) is the common name label and the second label should include date/locality. Full county name and state abbreviation should be on the second label. Collector’s name (or host) on the date/locality label is optional.

10. The specimens should be collected by the exhibitor and should focus on Kansas insects. Insects may be collected from one county into bordering states and labeled accordingly. Please refer to “Entomology Collection Exhibit Resource” for full details on out-of-state insects in collections.

11. Only specimens of the class Insecta should be included.

12. Purchased insects are not to be exhibited in collections, but they may be used in educational displays.

13. Specimens of soft bodied insects such as aphids, lice, termites, etc. should be exhibited in alcohol filled vials; however, the use of alcohol filled vials should be limited to only those specimens that lose their shape when pinned, since the vials pose a significant hazard to the rest of the collection if they become loose in transit.

**ALTERNATIVE ENERGY** (A form of energy derived from a natural source, such as the sun, geothermal, wind, tides or waves.) All exhibits in this division are limited in size to standard, tri-fold display boards (36”x48") and items may not extend beyond 12" from the back board. All displays must be self-standing.

**Educational Display:** Create an exhibit that addresses a focused topic related to power generated from a renewable energy source. The purpose of the exhibit is to inform and create awareness.

**Experiment:** Display an experiment addressing a problem or question related to power generated from a renewable energy source. Include hypothesis, background research, variables, a control, data, findings, conclusions and recommendations for future study.

**Department 7  Entomology**

**Enrollment:** 0

1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in project may exhibit collection and/or educational exhibit (maximum size 2’ x 3’) in each entomology phase. See page 9: poster, display & notebook criteria.
4. All entries should be submitted in an 18 x 24 x 3.5 inch wooden display box with a clear plastic top (such as Plexiglas). Boxes can be handmade or purchased as long as they are of the correct size.
5. 4-Hers may choose to use one of two taxonomies:
   - Option A: As printed in "Insects in Kansas" book, or
   - Option B: As printed on the “Insects in Kansas Book: 2016 Revised Taxonomy”, which follows

**Beginning Entomology I**

**Class 1040  Collection.**
Display in one standard box a minimum of 50 and maximum of 125 species representing at least 7 orders. Follow the guidelines listed for collections. Members can exhibit in this class a maximum of 3 years, or until they receive a purple ribbon at the Kansas State Fair, whichever comes first and then they are moved up a division.

**Beginning Entomology II**

**Class 1041  Collection.**
Display in one standard box a minimum of 75 and maximum of 150 species representing at least 9 orders. Follow the general guidelines listed for collections. Members can exhibit in this class a maximum of 3 years, or until they receive a purple ribbon at the Kansas State Fair, whichever comes first and then are moved up a division.
Intermediate Entomology
Class 1042 Collection.
Display a minimum of 100 and a maximum of 300 species representing at least 10 orders. Two standard boxes can be used. Follow the general guidelines listed for Collections. In addition, family identification is required for all insects in any two of the following six orders: (Only two will be counted for judging) a) “Insects in Kansas” book - Orthoptera, Hemiptera, Homoptera, Coleoptera, Hymenoptera, and/or Diptera or b) “Insects in Kansas Book: 2016 Revised Taxonomy”, which follows www.bugguide.net - Odonata, Orthoptera, Hemiptera, Coleoptera, Hymenoptera, and/or Diptera. On a piece of paper list what you did to improve your collection during the current year. Members can exhibit in this class a maximum of 3 years. A 4-H’er will move up if they receive a purple ribbon at the Kansas State Fair.

Advanced Entomology
Class 1043 Collection.
Display a minimum of 150 and a maximum of 450 species representing at least 12 orders. Three standard boxes can be used. Follow the general guidelines listed for collections. Family identification is required for all insects belonging to the six basic orders as outlined under the intermediate phase. Only families in the above six orders will be counted for judging. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained. On a piece of paper list what you did to improve our collection during the current year. Examples: what insects did you add or replace; what orders and/or families you added; what Leadership you provided in this project; and/or what insects you have studied. Attach paper to the back of one of the display boxes. Members may continue to exhibit in this class at the Kansas State Fair for an unrestricted number of years as long as they remain eligible for 4-H membership.

Entomology Notebooks
1. Individual entries are to be placed for display in a three-ring notebook for competition.
2. 4-Hers may choose to use one of two taxonomies: Option A: As printed in “Insects in Kansas” book or Option B: As printed on the “Insects in Kansas Book: 2016 Revised Taxonomy”, which follows www.bugguide.net
3. 4-Hers who have been previously enrolled in or are currently enrolled in the other phases of the Entomology project need to start with the Beginning Phase of Entomology Notebooks, not the introductory phase.
4. Each exhibitor is required to identify the notebook by placing a Title Page in the front of the notebook bearing the exhibitors name, county or district and class 4-H’er is enrolled in and statement of taxonomy used: Option A: “Insects in Kansas” book or Option B: “Insects in Kansas Book: 2016 Revised Taxonomy,” which follows www.bugguide.net The number of orders, specimens and families (required in Intermediate and Advanced classes) must also be included on the Title Page.
5. Specimen pages should be grouped according to order and should include one page per species. If more than one insect is in the photo, an arrow to indicate identified insect should be used.
6. Date, common name, full county name and state abbreviation should be included for each species. Collector’s name on the specimen page is optional.
7. Specimen pages should have two different views of the insect if possible. If pictures are taken on different dates/localities, include information for both.
8. A statement describing the habitat where found/host plant may be included and is encouraged and will be worth a bonus 10 points total, not per page. For Intermediate and Advanced notebooks, this is strongly encouraged.
9. A divider page is to be placed in front of each order of insects with the order name printed on the tab for the page as well on the front of the divider page.
10. For the Intermediate and Advanced classes, insects are also to be grouped by family behind each order divider.
11. If the exhibitor has been in the same class for more than one year, a separate sheet of paper needs to be added stating how many years the exhibitor has been in this class of the project and what the exhibitor did this year to improve their notebook. Place the paper just behind the Title Page in the front of the notebook.
12. A special project must be completed each year and included in the notebook. See project guideline materials for specifications.
13. Refer to the publication "Entomology Collection Notebook Guidelines" on the Kansas 4-H Entomology web page for more detailed rules for exhibiting.

Class 1044 Introductory Entomology Notebook: Display a minimum of 10 and a maximum of 30 insect species representing at least six different orders. Follow the general guidelines listed for Notebooks, including the Special Project. A 4-Her may exhibit in this class for a maximum of two years.

Class 1045 Beginning Entomology Notebook: Display a minimum of 20 and a maximum of 60 insect species representing at least seven different orders. Follow the general guidelines listed for Notebooks, including the Special Project. A 4-Her may exhibit in this class for a maximum of three years or until they receive a purple ribbon at the Kansas State Fair, whichever comes first.

Class 1046 Intermediate Entomology Notebook: Display a minimum of 50 and a maximum of 100 insect species representing at least nine orders. Follow the general guidelines listed for Notebooks, including the Special Project. In addition, family identification is required for all insects in any two of the following six orders: a) “Insects in Kansas” book - Orthoptera, Hemiptera, Homoptera,
Coleoptera, Diptera, and/or Hymenoptera or b) “Insects in Kansas Book: 2016 Revised Taxonomy” which follows [www.bugguide.net](http://www.bugguide.net) - Orthoptera, Hemiptera, Odonata, Coleoptera, Diptera, and/or Hymenoptera. A 4-Her may exhibit in this class for a maximum of three years. A 4-Her may move up if they receive a purple ribbon.

**Class 1047 Advanced Entomology Notebook:** Display a minimum of 100 and a maximum of 200 insect species representing at least twelve orders. Follow the general guidelines listed for Notebooks, including the Special Project. Family identification is required for all insects belonging to the six basic orders as outlined under the Intermediate phase. Only families in the above six orders will be counted for judging. Family identification in the remaining orders is optional, but desirable as long as accuracy is maintained. Members may continue to exhibit in this class for an unrestricted number of years as long as they remain eligible for 4-H membership.

**Educational Display Classes**
1. Share with others what you learned in this project. Exhibit any activity or learning experience related to the field of entomology or the Teaming with Insects curriculum that does not fit into Entomology Collection or notebook classes above.
2. Follow copyright laws as explained in the General Rules.
3. The exhibit may be, but isn’t limited to, original works, digital presentations (must provide printed hardcopy for exhibit purposes for duration of the fair), programs, apps, display box, notebook, display or poster which you have made.
4. If the exhibit is a wooden display box, it must be 18"x24"x 3½” with a clear plastic top (such as plexiglass) and displayed horizontally. If the exhibit is a poster, it must not be larger than 22"X28". If the exhibit is a display, maximum size is not to exceed a standard commercial 3’X4’ tri-fold display board.
5. Name and county/district must clearly be marked on educational exhibits.

**Class 1048 Beginning Educational Display:** Class for individuals that are exhibiting in the Beginning I and II Collection or Beginning Notebook Classes. If only exhibiting in this category, then ages 9-12.

**Class 1049 Intermediate Educational Display:** Class for individuals that are exhibiting in the Intermediate Collection or Intermediate Notebook Classes. If only exhibiting in this category, then ages 11-14.

**Class 1050 Advanced Educational Display:** Class for individuals that are exhibiting in the Advanced Collection or Advanced Notebook Classes. If only exhibiting in this category, then ages 13 or older.

**Department 8 Environmental Sciences**
- **Enrollment:** 0
  1. All general regulations apply.
  2. 2-sectional entry card is required for each exhibit.
  3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
  4. See page 9: poster, display & notebook criteria.

**Poster, Display, or Notebook**
- **Class 1055J** by 7-12 yr old member
- **Class 1055S** by 13 and older member

**Department 9 Exploring 4-H**
- **Enrollment:** 2 jr
  1. All general regulations apply.
  2. 2-sectional entry card is required for each exhibit.
  3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
  4. See page 9: poster, display & notebook criteria.
  5. Project is only for 7-9 year olds.

**Poster, Display, or Notebook**
- **Class 1056J** by 7-9 yr old member

**Department 10 Family Studies**
- **Enrollment:** 1 jr (1) awards
  1. All general regulations apply.
  2. 2-sectional entry card is required for each exhibit.
  3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
  4. See page 9: poster, display & notebook criteria.

**Poster, Display, or Notebook**
- **Class 1060J** by 7-12 yr old member
- **Class 1060S** by 13 and older member

**Department 11 Fiber Arts**
- **Enrollment:** 1 jr, 2 sr (1) awards
  4-H enrollment card projects: crochet, ethnic arts, knitting, macramé, needle arts, patchwork/quilting, rug making, spinning, weaving
  1. All general regulations apply.
  2. 2-sectional entry card is required for each exhibit.
  3. Member enrolled in this project may exhibit eight (8) entries per class completed in current project year in each area enrolled.
  4. See page 9: poster, display & notebook criteria.
  5. Exhibits must be made during current project year.
  6. Exhibit may be an article, notebook, poster, or display exhibit.
  7. Fiber arts is defined as any method of creating a unique design with fiber, fabric or yarn. This may include making fabric (such as weaving, crochet, knitting, needlepoint), or when existing fabric is changed into something quite different (such as quilting or embroidery or ethnic arts) Ethnic Fine Arts should use a fiber, yarn, or fabric to create the design exhibit. Non-textile
(examples include wood reed, straw, grass, etc.) baskets/pieces should be entered in the Visual Arts Division.

8. Identification Label: a) Type or print on a 3” x 21/2 “piece of cloth: class number, county or district, and exhibitor’s name. b) Sew or safety pin this ID label on the corner of flat articles; c) For garments, attach ID label to the front left shoulder seam, or left side of waistband, as if you were wearing the garments.

9. All articles/garments must be finished for use.

10. When articles, which are normally worn as a pair, are exhibited, both articles must be shown together. Fasten articles together securely with yarn.

11. Special consideration will be given to articles, which are of original design. Such articles should have a note attached explaining the original design.

12. Exhibitors are expected to be enrolled in the Fiber Art project in which they are entered. When the exhibit is a sewn garment that also includes one or more Fiber Art techniques (i.e. knitting, crochet, needle arts, or patchwork and quilting), the determination of what division (Clothing or Fiber Arts) and class in which to enter will be left with the 4-H participant.

13. All exhibits which need to be hung, MUST have the appropriate saw tooth hanger, rod, wire or other mechanism attached in order to be properly displayed. If necessary hardware is not attached, it may not be displayed.

14. Crocheted and knitted articles may be entered and judged in Fashion Revue competition.

FIBER ARTS: 1 jr, 2 sr (1) awards
CROCHET: an article, including felted items
Class 1065J made by 7-12 yr old member
Class 1065S made by 13 and older member

EDUCATIONAL NOTEBOOK: Share with others what you learned in this project about a particular Fiber Art. Exhibits, should be in the form of a notebook or binder. The notebook should include a narrative section describing the fiber art. It should include a clear description of the project, technique, budget, supplies, goals, successes, accomplishments, failures, and future plans. It may include samples of techniques, how-to’s, photographs of completed projects, or other ways of educating others about fiber arts. NOTE: A collection of brochures, web pages, patterns, record book forms, etc. does not constitute an educational notebook. Copyrighted material: see general regulations rule 12, page 9. Name, local unit and fiber art covered must be clearly marked in the notebook.
Class 1066J made by 7-12 yr old member
Class 1066S made by 13 and older member

ETHNIC ARTS: an article. This is defined as a Fiber Art technique that is associated with a specific country or culture. It is a practical skill that was developed to provide basic family needs such as apparel, home furnishings or decorations. It is also defined as a method that has been maintained throughout history and passed on to others, often by observation and by example, such as batik, Swedish huck towel weaving, mud cloth, bobbin weaving, tatting, felted items that are not knitted or crocheted, etc. Members should attach information on the history of the ethnic fiber art, where it was used, by whom, how it was used, short description of technique, etc.
Class 1067J made by 7-12 yr old member
Class 1067S made by 13 and older member

KNITTING: an article, including felted items
Class 1068J made by 7-12 yr old member
Class 1068S made by 13 and older member

MACRAME: an article
Class 1069J made by 7-12 yr old member
Class 1069S made by 13 and older member

NEEDLE ARTS: An article created by hand, using any of the following techniques: embroidery, cross-stitch, needlepoint, candle wicking, crewel, lacework, appliqué.
Class 1070J made by 7-12 yr old member
Class 1070S made by 13 and older member

PATCHWORK/QUILTING: It is an acceptable practice for exhibitor to create the patchwork or quilted article and have someone else quilt it.
Class 1071J made by 7-12 yr old member
Class 1071S made by 13 and older member

Best Use of Color & Design Award:
Judge’s choice for one quilt. Winner will receive a certificate from Solomon Valley Quilt Guild.

RUG MAKING: A rug, acceptable techniques include braiding, latch hook, tying, floor cloth, etc. The finished product should be an item that would be an item used in the home.
Class 1072J by 7-12 yr old member
Class 1072S by 13 and older member

SPINNING: a skein - minimum 10 yds in length
Class 1073J made by 7-12 yr old member
Class 1073S made by 13 and older member

WEAVING: A woven article -member should attach information about the type of loom or process used. (see #10 above).
Class 1074J made by 7-12 yr old member
Class 1074S made by 13 and older member

Department 12 Foods & Nutrition
Preservation: 3 jr, 1 sr (1) awards
Foods: 10 jr, 5 sr (2) awards
Exhibitors - please bring 3 extra of smaller items
There will be a BAKE SALE this year.
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. Purple ribbon exhibits held until judging is completed and plaque winner selected.

NOTE: No perishable food will be judged.

Food Preparation Rules:
a. Complete recipes with ingredients and instructions must be attached with the entry, or the placing will be lowered one ribbon when judged.
b. For food safety purposes, any food with custard and dairy-based fillings or frostings (ex. Cream cheese), raw eggs, flavored oils, “canned” bread / cakes in a jar, cut fresh fruit, or any food requiring refrigeration (ex. Bacon) or unbaked exhibit with raw flour (ex. No Bake Cookies) will be disqualified and not judged; refer to K-State Research and Extension publication, 4-H488, Judge’s Guide for Food and Nutrition Exhibits, https://bookstore.ksre.ksu.edu/pubs/4H488.pdf, and MF3544, Food Safety for Frostings and Fillings https://bookstore.ksre.ksu.edu/pubs/MF3544.pdf for information to help make informed, safe food exhibit decisions.
c. Alcohol (ex. wine, beer and hard liquor) is not allowed as an ingredient in food entries or entry will be disqualified and not be judged.
d. All baked goods must be left whole and uncut. Small items, such as cookies and rolls, should be the same shape and from the same recipe. Exhibit 3 cookies, 3 muffins, 3 bread sticks, 1 loaf bread, etc.
e. Under baked entries will be lowered one or more ribbon placings.
f. All un-frosted cakes should be exhibited in an upright position with crust showing, except for cakes made with special design such as Bundt cakes which should have top crust side down.
g. Attach gummed label to bottom of plate or cardboard with the following information: class number, food product name, 4-H member’s name, and county or district.
h. Any baked product that can be removed from the pan should be placed on paper plates, card-board or disposable container of appropriate size for the exhibit.
i. Exhibits should be in food grade plastic bags, disposable plastic containers or boxes of appropriate size for the exhibit. Only the exhibit is judged. The container is not judged.
j. Exhibitor is encouraged to attach a 3” x 5” index card with the entry card to provide information which the exhibitor thinks would be helpful for the judge to know.
k. All food preparation entries will be sold. (Extra small items appreciated for food sale (please label items.)

Favorite Food
Class 1080J by 7-12 yr old member
Class 1080S by 13 and older member

Table Setting with Menu (on 4”x 6” card: write menu to be served with table setting) criteria: menu selection, appropriateness of place setting. Bring your own card table.
Class 1081J by 7-12 yr old member
Class 1081S by 13 and older member

Favorite Food with Menu (on 3”x5” card: write menu and short description of occasion) criteria: appropriateness of menu for occasion, how well food fits the menu, serving appearance of food.
Class 1082J by 7-12 yr old member
Class 1082S by 13 and older member

Food Gift Package: No alcoholic beverages will be accepted. A food gift package must contain at least 3 different food items (prepared for human consumption), made by the 4-H member, in a suitable container no larger than 18”x18”x18”. Prepared food items must have recipes attached with the entry. Additional homemade food items beyond the 3 minimum or purchased items may also be included in the gift basket. On the back of the entry card, answer these questions: a) what is the intended use; b) what food safety precautions were taken during and after preparation. This entry will count as a non-perishable food product, not as an educational exhibit. Home canned foods must follow Food Preservation rules. Canning jars should not be used for baking per manufacturer’s instructions. They could break during baking.
Class 1083J by 7-12 yr old member
Class 1083S by 13 and older member

Educational Exhibit Exhibits may be in the form of a poster, notebook or display. Copyrighted material: see general regulations rule 12, page 9. Follow these regulations as you are preparing your exhibit. Take care to select materials that will withstand fair conditions. No card table displays are allowed. If the exhibit is a poster, it must not be larger than 22” x 28”. Displays are not to exceed a standard commercial 3’ x 4’ trifold display board. NOTE: A collection of your favorite recipes in a recipe box or notebook does not constitute an educational exhibit.
Class 1084J by 7-12 yr old member
Class 1084S by 13 and older member

Miscellaneous Food (decorative or unique)
Class 1085J by 7-12 yr old member
Class 1085S by 13 and older member

Cut-up Cake (county class only)
Class 1086J by 7-12 yr old member
Class 1086S by 13 and older member

Decorated Cake (county class only)
Class 1087J by 7-12 yr old member
Class 1087S by 13 and older member
Food Preservation Rules:

l. Exhibit must have been preserved since the member’s previous year’s county fair, and not have been exhibited at the previous county or state fairs.

m. Recipes and processing methods from the sources below are recommended. Recipes must be from 1995-present AND MUST BE ADJUSTED FOR ALTITUDE based on your processing location, or it will be disqualified. Processing methods that will be disqualified include: open kettle canning, oven canning, sun canning, and using electric multi-cookers. For more information on electric multi-cookers, see http://nchfp.uga.edu/publications/nchfp/factsheets/electric_cookers.html. Untested recipes will be disqualified for food safety reasons. Tested recipe resources include: K-State Research & Extension Food Preservation publications; other University Extension Food Preservation publications; USDA Complete Guide to Home Canning; So Easy to Preserve, 6th Edition, The University of Georgia Cooperative Extension Service; Ball Blue Book Guide to Preserving; Ball Complete Book of Home Preserving; canning mixes (i.e. Mrs. Wage’s, Ball); Pectin manufacturers (i.e. Sure Jell, Ball); and http://www.rrc.ks-state.edu/preservation/recipes.html. Refer to following K-State Research and Extension publications for more information: 4H712, “Food Safety Recommendations for Food Preservation Exhibits” (http://www.ksre.ksu.edu/bookstore/pubs/4H712.pdf); MF3170, “10 Tips for Safe Home-Canned Food” (http://www.ksre.ksu.edu/bookstore/pubs/MF3170.pdf); MF3171, “Sassy Safe Salsa at Home” (http://www.ksre.ksu.edu/bookstore/pubs/MF3171.pdf); MF3172, “What’s Your Elevation?” (http://www.ksre.ksu.edu/bookstore/pubs/MF3172.pdf); MF3241 “How to Guide to Water Bath Canning and Steam Canning” (http://www.ksre.ksu.edu/bookstore/pubs/MF3241.pdf); MF3242, “How to Guide to Pressure Canning” (http://www.bookstore.ksre.ksu.edu/pubs/MF3242.pdf).

n. Alcohol is not allowed as an ingredient in food entries or entry will be disqualified and not be judged.

o. Each exhibit must have the complete recipe and instructions attached with the entry card, or it will be disqualified. Recipe must include exhibitor name, recipe source, date of publication and altitude where food was processed. If using Mrs. Wage’s or Ball mixes, indicate the date the mix was purchased.

p. Exhibit must be processed in clean, clear standard canning jars, with matching brand (ex: use Ball lids on Ball jars, or Kerr lids on Kerr jars) two piece lids. Do not use colored jars, fancy padded lids, fabric over wraps or cozies as they interfere with the judging process. No fancy packs unless recipe states to do so (ex: Pickled asparagus). Jars must be sealed when entered. For food safety reasons, the size of jars used must not be larger than the jar size stated in the recipe (ex:Salsa is canned in pint jars only, no quarts). Note: there are now 12-ounce, 24-ounce, and 28-ounce canning jars available and may be used. Use pint jar process recommendations for 12-ounce jars. Use quart jar process recommendations for 24-ounce and 28-ounce jars.

q. Each jar exhibited must be labeled. The label must not cover the brand name of the jar. The label must give: class #, product, altitude where processed, canning method (water bath, weighted gauge or dial gauge pressure method), process time, pressure (psi), date processed including month and year, name, and county/district. You may need to make a label using an adhesive mailing label. Label templates may be found at: http://www.kansas4h.org/events-activities/fairs/kansas-state-fair/docs/foods-and-nutrition/Foods_Label.pdf (labels available from extension office).

r. Hole punch the entry card and use a rubber band to attach the two sectional entry form around the top of the jar.

s. If dried food product is not in a canning jar, it will be lowered one ribbon rating. Suggested amount: 1/3-1/2 cup, or three or four pieces per exhibit. All meat jerky must be heated to an internal temperature of 160 degrees F before or after drying. This is not the drying temperature! Dried products must include the recipe, preparation steps and heating instructions. Jerky not heated to an internal temperature of 160 degrees F will be disqualified and not be judged. Heating information can be found in “Dry Meat Safely at Home” www.ksre.ksu.edu/bookstore/pubs/MF3173.pdf.

t. One jar per entry; no colored jars. No food preservation in food sale.

Sweet Spreads, Syrups
(jams, jellies, butters, marmalades, syrups; fruit and/or vegetables)
Class 1090J by 7-12 yr old member
Class 1090S by 13 and older member

Fruits, Juices
(fruit mixtures: salsa, pie filling, etc.)
Class 1091J by 7-12 yr old member
Class 1091S by 13 and older member

Low Acid Vegetable
(green beans, corn, etc or vegetable mixtures)
Class 1092J by 7-12 yr old member
Class 1092S by 13 and older member

Pickles and Relishes
(fruit or vegetable, fermented foods, chutney)
Class 1093J by 7-12 yr old member
Class 1093S by 13 and older member
Tomato/Tomato Products
(tomato juice and tomato salsas)
Class 1094J by 7-12 yr old member
Class 1094S by 13 and older member

Meats
Class 1095J by 7-12 yr old member
Class 1095S by 13 and older member

Dried Foods
Class 1096J by 7-12 yr old member
Class 1096S by 13 and older member

Department 13  Forestry
Enrollment: 0
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. All leaf exhibits are to be mounted on 8½"x11" heavy stock paper and placed in loose-leaf binders (magnetic or adhesive filler sheets for photographic prints or sheet protectors are recommended), twig and fruit collections may be exhibited in whatever manner you choose. Maximum tri fold size is 3'x4'. Resources for exhibiting are located on the Kansas 4-H forestry project page: https://www.kansas4-h.org/projects/agriculture-and-natural-resources/plant-sciences/forestry.html
4. Name, club, age, and year in project should be on front cover or in a prominent location.
5. Leaves should be identified with an appropriate label located near the leaf on the same page, include proper common name as listed in the 4-H Bulletin 334 List of Native Kansas Forest Trees, https://www.bookstore.ksre.ksu.edu/pubs/4H334.pdf on label include a) location (city and/or county) where collected b) date (day, month, year) or (month, day, year) collected.
7. New specimens are those specimens collected during current 4-H year and cannot be a duplicate tree species of previously displayed specimens.
8. Group specimens according to the years collected (ex: “old-previous years” and “new”).
9. Variations of varieties do not count as different species or specimens.
10. When replacing previously displayed samples, due to degradation, improper mounting or incorrect identification, the specimen label must also be updated. Replacements do not count as new specimens; replacements should be displayed in the “old previous” section of the display.
11. If you retrieve information for your forestry exhibit, you must include a reference citation to the source.

12. In all leaf collections, exhibit one complete leaf where possible. If leaf is too large, exhibit as much as possible. Sketch in reduced scale the entire leaf and illustrate where the exhibited portion is from. Note: A “leaflet” is incorrect when displayed as the complete leaf for the tree.
13. All work must show originality; leaf collections and displays should not closely resemble work done by others in the same club.

Knowing Trees As Individuals (Leaf Collections)

Forestry Collection: Choose either A or B
A. Exhibit a minimum of 10 different leaves from native Kansas trees collected within the year. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees, or B. Exhibit a minimum of 5 native Kansas trees showing leaf, twig, and fruit from each species collected.
Class 1100J by 7-12 yr old member
Class 1100S by 13 and older member

Forestry Collection: Choose either A or B
A. Exhibit a minimum of 20 different leaves (including 10 new specimens) from native Kansas trees. Exhibit can include non-native in addition to the required number of leaf specimens collected from native Kansas trees, or B. Exhibit a minimum of 10 native Kansas trees showing leaf, twig, and fruit from each species collected. This exhibit must include 5 new leaf, twig, and fruit specimens.
Class 1101J by 7-12 yr old member
Class 1101S by 13 and older member

Forestry Collection: Choose either A or B
A. Exhibit a minimum of 30 different leaves (including 10 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native KS trees or B. Exhibit a minimum of 15 native trees showing leaf, twig, and fruit from each species collected. Exhibit must include 5 new leaf, twig, & fruit specimens.
Class 1102J by 7-12 yr old member
Class 1102S by 13 and older member

Forestry Collection: Choose either A or B
A. Exhibit a minimum of 40 different leaves (including 20 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees, or B. Exhibit a minimum of 20 native Kansas trees showing leaf, twig, and fruit from each species collected. Exhibit must include 10 new leaf, twig, and fruit specimens.
Class 1103J by 7-12 yr old member
Class 1103S by 13 and older member

How a Tree Grows Notebook: Entry may include a project notebook with 10 or more seeds collected with pictures showing a germination study or a mounting of a thin section
of wood cut from the end of a log or top of stump labeled with information such as kind of wood and age of tree when cut or exhibit an illustration of how trees grow.

Class 1104J by 7-12 yr old member
Class 1104S by 13 and older member

Tree Appreciation Notebook: Entry may include a research or reporting notebook with no more than 10 pages based on the exhibitor's selected tree. Exhibit must be a different species of tree each year. This notebook may include sketches, drawings, pictures, a story, or any other things which will help tell about the tree you have selected.

Class 1105J by 7-12 yr old member
Class 1105S by 13 and older member

Growing & Protecting Trees Display/Notebook: Entry requires a display or project notebook telling about project and pictures before, during and after planting seedlings, a container tree, or a balled and burlapped tree.

Class 1106J by 7-12 yr old member
Class 1106S by 13 and older member

Tree Culture Display/Notebook: Entry requires a display or project notebook showing your project work, includes pictures of before, during, and after wood lot improvement.

Class 1107J by 7-12 yr old member
Class 1107S by 13 and older member

How Forests Serve Us: Entry may include collected wood samples (all or partial) and 2 page essay. Wood sample display to be mounted on poster board or any stiff material no larger than 3' wide x 4' high. Essay should be displayed in a covered binder.

Class 1108J by 7-12 yr old member
Class 1108S by 13 and older member

Educational/Creative Exhibit: Entry must be directly related to tree identification or Forestry. Type of exhibit is open (notebook, poster, collection box, etc); given a maximum size of 3'x4'. Care should be taken to use durable materials that will withstand county fair conditions. A good class to exhibit an unusual collection.

Class 1109J by 7-12 yr old member
Class 1109S by 13 and older member

Department 14 Geology & Lapidary

Enrollment: 1 jr (1) awards

1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Exhibit box should be 18"x24"x3½". Plexiglas covers are required; boxes with glass covers WILL NOT be accepted. All specimens are to be arranged across the narrow (18") dimension of the exhibit box making the exhibit 18" across the top and 24" deep exactly. If a box has a sliding Plexiglas cover, it must be removable from the top. Screws, locks, or other devices that would prevent judge from removing the cover should not be used. (For Lapidary classes, the dimensions of the box should be appropriate for the display, but should not exceed 18x24x3 ½).
4. Each exhibitor is required to identify each display box by placing an identification label bearing name, county/district, and number of specimens in the upper left-hand corner of the Plexiglas cover (inside-use clear double-sided tape to adhere gummed label), and by attaching a label with the same information on the lower right corner of the box (outside).
5. Exhibitor may enter in both geology and lapidary Classes. Exhibitor may show in only one of the first four geology classes, exhibitor may also show in geology class 1154 (special exhibit), Mineralogy, Fossils, and in one lapidary class.
6. Geology specimens should be labeled with the number of the specimen, date collected, specimen name or description, and locality (county) where collected.
7. For geology classes 1150-1153 specimens should be mounted in the box by proper groups: rocks, minerals, fossils; fossils must be identified to the Phylum, Class and Genus level. Genus name is to begin with a capital letter. Species name is all lower case. Genus and species names must either be italicized or underlined, not both. The words "phylum, class, genus" on labels are to be spelled out, not abbreviated. More than one specimen of the same kind of rock or mineral or species of a fossil may be exhibited if this duplication represents different geological formations; specimen label must show this distinction (Fort Hays limestone, not just limestone; calcite from the Greenhorn Formation, not just calcite; Phylum: Brachiopoda Class: Articulata Genus: Composita from the Morrill Limestone Member, not just Phylum: Brachiopoda Class: Articulata Genus: Composita).
8. For all geology classes, all specimens must be collected by the participant (not purchased) from locations in KS, with the exception of Tri-State Mining Area specimens collected from these three adjacent counties: Ottawa County, OK; Newton and Jasper Counties, MO. Out-of-state specimens will not count in the minimum number for the class, nor will they be considered in the judging.

Geology display: at least 15 rocks, minerals and fossils collected during the current 4-H year; limited to one exhibit box.

Class 1120J by 7-12 yr old member
Class 1120S by 13 and older member

Geology display: at least 30 rocks, minerals, and fossils, at least 5 of each; fifteen must collected during the current 4-H year; limited to one exhibit box.

Class 1121J by 7-12 yr old member
Class 1121S by 13 and older member

Geology display: at least 45 rocks, minerals, or fossils, at least 5 of each; fifteen must have been collected during
the current 4-H year; exhibit limited to two boxes; identify the rocks as igneous, metamorphic or sedimentary. **These rock types must be spelled out on labels or have a legible key.**

**Class 1122J** by 7-12 yr old member  
**Class 1122S** by 13 and older member

**Geology display:** at least 60 rocks, minerals, or fossils, at least 5 of each; **fifteen must have been collected during the current 4-H year;** exhibit limited to two boxes; identify the rocks as igneous, metamorphic or sedimentary. **These rock types must be spelled out on labels or have a legible key.**

**Class 1123J** by 7-12 yr old member  
**Class 1123S** by 13 and older member

**Geology Educational exhibit:** Special exhibit relating to everyday living or to a mineral test, a rock formation, geological history, species of a fossil, forms of one mineral, a variation of one kind of rock, archaeological artifacts, or Indian artifacts. **Digital formats are accepted; make arrangements for the judge to view your exhibit and have a hard copy for display.** Exhibit limited to 4 feet of table space; **care should be taken to use durable materials that will withstand fair conditions.** Exhibitor may show in the class regardless of whether exhibitor has other geology class entries. Exhibitor may also exhibit in lapidary class.

**Class 1124J** by 7-12 yr old member  
**Class 1124S** by 13 and older member

**Mineralogy display:** A minimum of 15 mineral specimens collected in Kansas, **at least 5 of which have been collected during the current 4-H year.** Minerals are to be grouped by mineral class (ie: Carbonates, Oxides, Silicates) and at least 3 classes must be represented. Member must use one standard display box; specimens must be labeled with the number of the specimen, date collected, name of specimen, county where collected and chemical composition (ie: CaCO₃ for calcite) if known.

**Class 1125J** by 7-12 yr old member  
**Class 1125S** by 13 and older member

**Fossil display:** A minimum of 15 fossil specimens collected by the participant in Kansas, **at least 5 of which have been collected during the current 4-H year.** The fossils are to be grouped by Phylum and Class, and at least 3 phyla must be represented (Brachiopoda, Chordata, Mollusca, etc.) Member must use one standard display box; specimens must be labeled with the number of the specimen; date collected; county where collected; formation, member, or source; phylum, class, and genus or part; and geologic age (Cretaceous, Permian, Pennsylvanian, etc.)

**Class 1126J** by 7-12 yr old member  
**Class 1126S** by 13 and older member

**Geology exhibit county class only** (not eligible for state fair) First year members under the age of 10, one display box with 15 specimens **(rocks, minerals, fossils), any box suitable for displaying the specimens may be used.**

**Class 1127J** by 7-12 yr old member  
**Class 1127S** by 13 and older member

**LAPIDARY**

**judging criteria:** 10 points-accuracy of information, 30 points-presentation & showmanship, 60 points-workmanship & content.

All lapidary specimens should be labeled with the following information: specimen name, place of origin (country, state, or county; county required for Kansas specimens), purchased or self-collected, date lapidary treatment began, date lapidary treatment completed (treatment completed after the state fair is considered a new year specimen).

**Lapidary exhibit boxes** may be a standard size, 18”x24”x 3½ “. If appropriate, specimens should be arranged across the 18” dimensions of the exhibit box. **All boxes must have a removable Plexiglas cover.**

**Lapidary display:** At least 5 varieties of polished (tumbled) specimens and 5 varieties of unpolished specimens that have not yet received lapidary treatment. These do not have to be an example of “before and after”, nor do they have to be self-collected; locales must be identified.

**Class 1128J** by 7-12 yr old member  
**Class 1128S** by 13 and older member

**Lapidary display:** Before and after examples of at least 3 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each. There is no requirement that the 4-H’er collect any of these; locales must be identified. Lapidary work should be done during the current 4-H year.

**Class 1129J** by 7-12 yr old member  
**Class 1129S** by 13 and older member

**Lapidary display:** Before and after examples of at least 6 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each, at least 2 varieties should be collected from the native site by the 4-H’er, at least one of which comes from Kansas; locales must be identified. Lapidary work on at least three varieties should be done during the current 4-H year.

**Class 1130J** by 7-12 yr old member  
**Class 1130S** by 13 and older member

**Lapidary display:** Before and after examples of at least 9 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each, at least 3 varieties should be collected from the native site by the 4-H’er, at least two of which comes from Kansas; locales must be identified. Lapidary work on at least three varieties should be done during the current 4-H year.

**Class 1131J** by 7-12 yr old member  
**Class 1131S** by 13 and older member
Lapidary exhibit: At least 6 specimens that have not previously been exhibited, which have received lapidary treatment. Lapidary treatment may consist of polishing, and end, face, or flat lapping. Specimens must represent at least 3 different varieties and include at least three cabochons of any size or shape, only one of which may be free-formed. A cabochon is a style of cutting in which the top of the stone forms a domed or curved convex surface. Three of the specimens must be mounted into jewelry findings.
Class 1132J by 7-12 yr old member
Class 1132S by 13 and older member

Department 15 Health & Wellness
Enrollment: 0
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. A sheet of operation instructions must be furnished for any exhibit that is not self-explanatory.

Your Bicycle & You: poster, notebook, display
Class 1140J by 7-12 yr old member
Class 1140S by 13 and older member

Maintaining Your Bicycle: poster, display, notebook
Class 1141J by 7-12 yr old member
Class 1141S by 13 and older member

Health: poster, notebook, display
Class 1142J by 7-12 yr old member
Class 1142S by 13 and older member

Outdoor Adventure: poster, display, notebook
Class 1143J by 7-12 yr old member
Class 1143S by 13 and older member

Recreation: poster, notebook, display
Class 1144J by 7-12 yr old member
Class 1144S by 13 and older member

Department 16 Home Environment
Enrollment: 1 jr (1) awards
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. Articles need not be new but, shall be carefully laundered or cleaned before being exhibited.
6. A summary including plans, explanation of how the items were made or refinished, and how it fits into the color and design of the room. Summary could also include project inspiration, challenges, who helped you, and any other information that could be helpful to the judge. Summary should be in a plastic protective sleeve and attached to the exhibit.
7. Projects with missing or insufficient summary will be lowered one ribbon placing.
8. Exhibits should be of high quality (as compared to quick, simple crafts), suitable for use in the home several months throughout the year. Holiday-specific items are discouraged.

Single exhibit: An article (furniture, fixtures, interior or exterior, etc.) made by the 4-Her for the home. Must include attached summary.
Class 1145J by 7-12 yr old member
Class 1145S by 13 and older member

Design Board: Boards must be on foam core or a standard tri-fold display. Include: color scheme, wall treatment, floor treatment, samples, etc. and/or floor plan for a room. Must include attached summary.
Class 1146J by 7-12 yr old member
Class 1146S by 13 and older member

Notebook: May include floor plans, swatches, colors, stories, photographs, & project records which detail what was accomplished this year with given indication of long term plans. Notebooks should also include project inspiration, challenges, who helped you, and any other information that could be helpful to the judge. Additional summary is not required for Notebook exhibits.
Class 1147J by 7-12 yr old member
Class 1147S by 13 and older member

Department 17 Leadership
Enrollment: 1 jr, 6 sr (1) awards
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. Exhibit must display work relating to current 4-H year.
6. Judging will be based on the exhibit (50%) and the leadership interview (50%).

Leadership poster, notebook, display
Class 1150J by 7-12 yr old member
Class 1150S by 13 and older member

Department 18 Pets
Judging: 11:30 a.m. Friday, July 9, Quonset for Pets Show & Tell. Class 1151 will be judged Friday, July 9 prior to Pets Show. NO PETS SHOW this year.
Enrollment: 0
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three
(3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. Digital photos taken for display of all pets entered.
6. Show & tell showmanship criteria: presentation -30%
   subject -30% interest -10% summary -10% appearance
   -10% visuals/equipment -10%

Pets poster, notebook, display
Class 1151J by 7-12 yr old member
Class 1151S by 13 and older member

Pots show and tell
Class 1152J by 7-12 yr old member
Class 1152S by 13 and older member

Department 19 Photography
TO SIGN-UP a TIME (Put photos in the appropriate box -jr/sr - by your last name)
Enrollment: 9 jr, 6 sr (2) awards
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three
   (3) entries per class completed in current 4-H yr.
4. Remove white border from the photo print before
   mounting, all photos must be no larger than 8"x10" and
   no smaller than 7"x 9", after trimming.
5. Photos are to be mounted across the narrow (11")
   dimension of 11"x12½" photo matte.
6. Photos must be **mounted with the top edge of the print**
   1" below the top of the mount; the sides of the print
   must be equal distance from the two sides of the
   mount.
7. A full coverage permanent mount (spray adhesive
   recommended or heat mount) must be made (matte and
   spray adhesive available at extension office).

Photo matte MUST BE VERTICAL (see diagram); use
photo adhesive to mount photo.

8. No lettering, including dates, is permitted on the front
   of the mount or on the photo, no underlays or borders
   may be used.
9. To protect exhibits from dust and moisture, place in a
   self-sealing, clear plastic bag (available at ext. office).

10. Improperly mounted photos, oversize or undersize
    photos or photos with the white borders not removed or
    lettering (including dates) on the photo, will be awarded
    a ribbon one placing lower than the placing determined
    by the official judge (see diagram for correct
    placement).
11. Photographs taken with a digital camera and having no
    more adjustments than exposure, color intensity or
    correction, one click filter effects, red eye removal,
    cropping, dodging and burning should be entered in the
    standard color or black and white classes. HDR photos
    are to be entered in the standard photo class.
12. Digital Composite Image: Finished photo must be
    created from two or more original images photographed
    by exhibitor. HDR photos do not qualify for this class.
    Photos will be judged on photographic merit as well as
    manipulation technique and process.
13. Black and white class is for black and white prints only.
    Monochromatic prints, including sepia prints are
    considered color photos and must be entered in the
    appropriate color photo class.
14. Appropriate photo subject matter: Photographic subject
    matter is expected to follow 4-H standards, for a sense
    of prohibited subject matter, review the Kansas 4-H
    member Code of Conduct; in general, if it is not
    allowable at a 4-H event, it is not allowable in a 4-H
    photograph.
15. Photos with live subject(s) on railroad right of way
    or taken from railroad right of way property will not be
    displayed and will be disqualified and not judged.
16. Copyright protections must be observed.

Color Enlargement
Class 1160J by 7-12 yr old member
Class 1160S by 13 and older member

Black and White Enlargement
Class 1161J by 7-12 yr old member
Class 1161S by 13 and older member

Slides (color or black and white)
Class 1162J by 7-12 yr old member
Class 1162S by 13 and older member

Slides (color or black and white, with special effects)
(darkroom manipulation of print and/or in-camera
manipulation of negative)
Class 1163J by 7-12 yr old member
Class 1163S by 13 and older member

Digital Composite Image
Photo must be created from two or more originals taken by
the exhibitor. Exhibitor must include a second 11 x 12-1/2
matte board (Explanation Board) mounted with standard
size print or prints of the original photo(s) and 3 x 5 card(s)
explaining what manipulation was done and a standard size
print of the final photo. Optional, may include prints of
editing steps, photos showing editing steps may be layered.
Please put name and extension unit on the front of the second board. Explanation Boards will be displayed along with the finished board. Place both matte boards in the same protective plastic bag. Note: See rule 12 above for definition.

**Class 1164J** by 7-12 yr old member  
**Class 1164S** by 13 and older member

**Portfolio Classes**

**Growth Portfolio:** Member must have been enrolled in Photography project for five years or more. Exhibit will consist of 5 photos – one from each of the past 5 years of enrollment. Each photo must have been created in a different year and must be labeled with year taken and which year of enrollment it represents. Photos must be 8”X10” and may be color or black and white. An information sheet must accompany each photo giving brand and model of camera used to create the photo. The settings for focal length, aperture, mode and shutter speed must also be listed. Skill set used to create the photo must be given and explained. Main goal for each year should be listed. Beginning with photo 2, member description of GROWTH in project skill must be included on information sheet. Exhibit will consist of photos arranged in chronological order of enrollment, information sheet on each photo, and all information listed above. A portfolio book will be required.

**Class 1165J** by 7-12 yr old member  
**Class 1165S** by 13 and older member

**Career Portfolio:** Member must have been enrolled in Photography for 5 or more years OR must be age 15-19 and been enrolled in photography for at least 2 years. Exhibit will consist of ten 8x10 photos showing skill development in one of the following photography areas: Portraiture, Special Effects (not done with computer), Landscape, Photo Journalism, Black & White, Nature/Wildlife or Graphic Design (computer skills with photos). Photos may have been created over multiple project years. Photos may be color except if Black and White option is chosen. An information sheet must accompany each photo giving brand and model of camera used to create the photo. The settings for focal length, aperture, mode and shutter speed must also be listed. A one page summary should accompany the portfolio listing the goal for pursuing this area of photography and what skills were learned while doing so. Mentors should be acknowledged. Career exploration can also be described. Exhibit will be presented in a notebook designed for portfolio review with pages for required information listed above.

**Class 1166J** by 7-12 yr old member  
**Class 1166S** by 13 and older member

**Note:** A member may enter only one portfolio each year.

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**County Classes, not eligible for state fair.**

**Photo Album:** current year's work

**Class 1167J** by 7-12 yr old member  
**Class 1167S** by 13 and older member

**Untouched:** two color or two black and white pictures (4"x6" or 3"x5") mounted on 11"x12½" studio mount.

**Class 1168J** by 7-12 yr old member  
**Class 1168S** by 13 and older member

**Picture Set:** 4 color or 4 black and white (3"x5") pictures mounted on 11"x12½" studio mount, (must include one photo from each category: building; animal, landscape, people).

**Class 1169J** by 7-12 yr old member  
**Class 1169S** by 13 and older member

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**Department 20 Plant Science**

**Enrollment: Field Crops:** 2 jr, 2 sr (1) awards

**Floriculture:** 1 jr (1) awards

**Horticulture:** 2 jr, 1 sr (1) awards

1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr. (exception soybean seed, edible field bean seed).
4. See page 9: poster, display & notebook criteria.

**FIELD CROPS**

a. Exhibits should be as mature as possible.

b. Every entry must be identified by hybrid or variety name.

c. Exhibit must be from most recent harvest.

d. All classes calling for a gallon sample may have a 2 ½ - 3 inch in diameter cylinder placed in a glass gallon container to reduce the amount of grain to about three quarters.

**Corn:** white &/or yellow, 10 ears &/or 1 gallon

**Class 1180J** by 7-12 yr old member  
**Class 1180S** by 13 and older member

**Sorghum:** hybrid grain 10 heads, hybrid forage, entire plant, no roots, &/or other forage, entire plant, no roots

**Class 1181J** by 7-12 yr old member  
**Class 1181S** by 13 and older member

**Wheat:** soft red &/or hard red winter &/or hard white, one gallon

**Class 1182J** by 7-12 yr old member  
**Class 1182S** by 13 and older member

**Sunflowers:** confectionery 3 heads or one gallon seeds &/or oil seed 3 heads &/or seed, one gallon jar

**Class 1183J** by 7-12 yr old member  
**Class 1183S** by 13 and older member

**Oats,** one gallon

**Class 1184J** by 7-12 yr old member
Class 1184S by 13 and older member

Alfalfa, one gallon &/or tied in 2 directions 6" thick flake, rectangular bale, &/or 10" section cut from round bale
Class 1185J by 7-12 yr old member
Class 1185S by 13 and older member

Barley, one gallon
Class 1186J by 7-12 yr old member
Class 1186S by 13 and older member

Grass Hay tied in 2 directions: 6" thick flake, rectangular bale, or 10" section cut from round bale
Class 1187J by 7-12 yr old member
Class 1187S by 13 and older member

Brome Grass one gallon sample of seed
Class 1188J by 7-12 yr old member
Class 1188S by 13 and older member

Other Tame Grasses one gallon sample of seed
Class 1189J by 7-12 yr old member
Class 1189S by 13 and older member

Soybeans one gallon sample seed &/or bundle of five plants
Class 1190J by 7-12 yr old member
Class 1190S by 13 and older member

Edible Field Beans, one gallon sample seed &/or bundle of 5 plants with roots
Class 1191J by 7-12 yr old member
Class 1191S by 13 and older member

Miscellaneous Crops: one gallon sample of seed &/or 10 heads
Class 1192J by 7-12 yr old member
Class 1192S by 13 and older member

4-H Wheat Variety Plot display: Exhibitor must be enrolled in wheat variety plot project. Free standing display not to exceed overall outside dimensions 36" wide x 36" high x 18" deep(measured on the outside). Care should be taken to select durable materials that will withstand county fair conditions. Displays must not require the use of electricity. If booth exceeds overall dimensions, ribbon placing will be dropped one place. Members must include the varieties provided in the display, but may include more varieties, if desired. 70% educational value (is main idea of display specific? was the title or theme emphasized? is the idea presented so cleanly, so simply, so forcefully, that it will stop the casual observer? if the passerby stopped, did the display give the observer additional facts in a clear, concise way? example: variety differences in wheat, economic gains from adoption of desirable practices). 30% quality of display materials (size, style, neatness of lettering, proportion of models and lettering balanced, workmanship, including handouts, if used, charts, models, and lettering used effectively to teach ideas, colorful, artistic, neat and well balanced).
Class 1193J by 7-12 yr old member
Class 1193S by 13 and older member

Weed Control exhibit: Collect, identify, press, mount, and label a minimum of 15 weeds. Try to include their roots, stems, leaves and flowers. Three of the weeds must be noxious weeds preferably found in your home county. A standard 9"x12” scrapbook may be obtained in which to permanently mount your weed specimens. Identify the scrapbook with your name and county on the inside front cover. Prepare a list of the weeds mounted, showing common name, scientific name, and where it was found. Place the list in a specially identified section of the scrapbook. Collect and identify weed seeds found in crop seeds. Mount them for display purposes. Place them in a specially identified section of the scrapbook. Write a story on “How We Control Weeds on Our Farm” if you live on a farm. Other members write “How We Control Weeds at Home”. The story should be about 300 words in length. It must show definite methods used to control weeds. Place the story in a specially identified section of the scrapbook. Class 1194J by 7-12 yr old member
Class 1194S by 13 and older member

Field crop poster, notebook, display
Class 1195J by 7-12 yr old member
Class 1195S by 13 and older member

FLORICULTURE

a. Each cut flower specimen must be of a different species.
b. All plant materials must be grown and/or collected by exhibitor, not purchased. Entries should not take over one square foot of table space.

Annual Garden Flower, single stem, cut specimen
Class 1200J by 7-12 yr old member
Class 1200S by 13 and older member

Perennial Garden Flower, single stem, cut specimen
Class 1201J by 7-12 yr old member
Class 1201S by 13 and older member

Fresh Flower Arrangement
Class 1202J by 7-12 yr old member
Class 1202S by 13 and older member

Dried Flower Arrangement, no fabric or plastic material allowed
Class 1203J by 7-12 yr old member
Class 1203S by 13 and older member
Other Flower Arrangement
Class 1204J by 7-12 yr old member
Class 1204S by 13 and older member

County Classes, not eligible for state fair:
Flower Arrangement any artificial, dried, silk, plastic
Class 1205J by 7-12 year old member
Class 1205S by 13 and older member

Potted Plant
Class 1206 J by 7-12 yr old member
Class 1206 S by 13 and older member

Hanging Plant
Class 1207J by 7-12 yr old member
Class 1207S by 13 and older member

Terrarium
Class 1208J by 7-12 yr old member
Class 1208S by 13 and older member

Other
Class 1209J by 7-12 yr old member
Class 1209S by 13 and older member

Floriculture poster, notebook, display
Class 1210J by 7-12 yr old member
Class 1210S by 13 and older member

HORTICULTURE
a. All horticultural exhibits must be grown by the exhibitor.
b. Exhibiting Fruits & Vegetables - KSU C405 will be used as a guideline in preparing horticulture exhibits. It is available at:
c. Secure entry form to plate or container with string or tape; use a sturdy plate, bowl or container that will support the weight of the produce.
d. A purple ribbon out-of-season vegetable or fruit (i.e. early peas) at the county fair is eligible to be substituted with another vegetable (i.e. pumpkin) at the state fair.
e. Quality and condition of the exhibit will be considered, choose vegetables for exhibit that will hold up well during the fair; avoid over-ripe or over-mature specimens. Those that are slightly under-ripe or slightly immature when picked may last longer.

Garden Display: Each exhibitor is limited to four square feet of space. Display must be exhibited in a tray, basket or container that can be easily moved by the fair staff. Exhibit consists of five (5) different fresh vegetables or fruits; canned products and shelled vegetables not acceptable. Only one variety of each type of vegetable or fruit may be exhibited. Numbers of the five vegetables or fruits to be exhibited are as follows: Large Vegetable (one each), Medium Vegetable (five each) & if small vegetables, such as green beans, are used as one of the five different vegetables, (1 dozen) is suggested for a good display, Small fruits (one half pint box), Tree fruits (5 each), Grapes (2 bunches).

Class 1215J by 7-12 yr old member
Class 1215S by 13 and older member

Small Vegetable Specimen Plate (12 each) green snap beans, yellow wax beans, radishes other small vegetables.
Class 1216J by 7-12 yr old member
Class 1216S by 13 and older member

Medium Vegetable Specimen Plate (5 each) cucumbers, cherry tomatoes, tomatoes, beets, onions (white, yellow, red), bell peppers, other peppers, radishes, okra, parsnips, turnips, potatoes (sweet, red, white or Russet), carrots, miniature pumpkin, decorative gourds, or other medium vegetables.
Class 1217J by 7-12 yr old member
Class 1217S by 13 and older member

Large Vegetable Specimen Plate (one each) watermelon, squash (summer or winter), pumpkin, eggplant, cabbage, cantaloupe, other large vegetable.
Class 1218J by 7-12 yr old member
Class 1218S by 13 and older member

Fresh Culinary Herbs (examples: parsley, basil, dill, etc) six (6) stems (or a comparable quantity) of one variety of fresh herbs exhibited in a disposable container of water. Dried herbs are not accepted.
Class 1219J by 7-12 yr old member
Class 1219S by 13 and older member

Small Fruits (one half pint box) strawberries, blackberries, raspberries, or other similar sized fruits.
Class 1220J by 7-12 yr old member
Class 1220S by 13 and older member

Tree Fruits (plate of 5) apples, pears, peaches, or similar sized fruits.
Class 1221J by 7-12 yr old member
Class 1221S by 13 and older member

Grapes (plate of 2 bunches)
Class 1222J by 7-12 yr old member
Class 1222S by 13 and older member

Horticulture poster, display
Class 1223J by 7-12 yr old member
Class 1223S by 13 and older member

Horticulture Notebook: Entry shall consist of a notebook or three ring binder of written narrative describing a horticulture project such as a landscape design, landscape installation, lawn renovation, water garden, flower garden,
vegetable garden, lawn mowing service, landscape maintenance business, farmer’s market business, or other horticultural project. 4-Hers are encouraged to include photographs, illustrations and/or landscape drawings that help explain work done by the member. Photos taken from the same location before, during and after the completion of the project are particularly helpful. Horticulture notebook scoring is as follows: Organization and General Appearance (neat, includes title page and table of contents, original, creative, etc.) 20%; Narrative (including goals, successes, failures, etc.) 40%; General Content (subject matter, photos, maps, knowledge gained, etc.) 40%.

Class 1224J by 7-12 yr old member
Class 1224S by 13 and older member

Department 21 Public Speaking/Communications

Enrollment: 0
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.

Poster, notebook, display
Class 1230J by 7-12 yr old member
Class 1230S by 13 and older member

Department 22 Reading

Enrollment: 0
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.

Poster
Class 1235J by 7-12 yr old member
Class 1235S by 13 and older member

Book Display with written explanation about books
Class 1236J by 7-12 yr old member
Class 1236S by 13 and older member

Notebook of Book Reviews, at least five (5)
Class 1237J by 7-12 yr old member
Class 1237S by 13 and older member

Box Scene with written summary of story
Class 1238J by 7-12 yr old member
Class 1238S by 13 and older member

Other
Class 1239J by 7-12 yr old member
Class 1239S by 13 and older member

Department 23 Self Determined

Enrollment: 2 jr, 1 sr (1) awards
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in project may exhibit three (3) entries per class relating to current year project work.
4. See page 9: poster, display & notebook criteria.

Self-determined notebook, poster, display
Class 1240J by 7-12 yr old member
Class 1240S by 13 and older member

Department 24 Shooting Sports

Enrollment: 2 jr, 1 sr (1) awards
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria, plus posters must be flat. Notebooks – no larger than 8 ½ x 11.
5. Entries will prominently incorporate the 4-H Clover with KSRE co-branding and should include the Kansas 4-H Shooting Sports emblem. Failure to do so will penalize entry one ribbon color.
6. THE EXHIBIT SIZE RULE WILL BE STRICTLY ENFORCED! Exhibits exceeding the size guidelines will be penalized one ribbon color.
7. Exhibitors must comply with state and federal laws, no “live” ammunition containing propellant or explosive powders may be used in any display! An inert substitution must be used in lieu of powder and “live” ammunition. The substitution must be clearly described on the back of the poster, display or in a notebook.
8. Name, county or district, age and year in project should be on the front of the poster, display, or notebook.
9. Exhibits will not be accepted if they are related to reloads.
10. Educational Displays will be judged on the following points: Stopping Power, Interest, Holding Power, 4-H Project application, Mechanical Power, Personal Growth, Educational Value.
11. Posters will be judged on the following points: Stopping Power, Interest, Holding Power, 4-H Project application, Mechanical Power.

Note: State Fair has educational displays, promotional posters and notebooks only.

Shooting sports notebook, poster, display
Class 1245J by 7-12 yr old member
Class 1245S by 13 and older member

Department 25 Stem (formerly Spacetech)
(Mechanics, Architectural, Astronomy, Computers, Robotics, Rocketry, Unmanned Aerial, and Educational)

Enrollment: 1 jr, 1 sr (1) awards
1. All general regulations apply
2. 2-sectional entry card is required for each exhibit

PAGE 27
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria

STEM AG MECHANICS
Description: The Ag Mechanics exhibit area is a new STEM project for 2021. The project is starting with an emphasis on welding and smithing, it will expand as the project area grows. This project allows youth to explore areas of ag mechanics and metallurgy from repairing or repurposing items to the fabrication of new items. The intent is for this program start with foundational areas, some of which youth may already have, and allow them to continue to build on this knowledge becoming more experienced.

1. Exhibits must have been constructed or repaired during the current 4-H year.
2. Total exhibit dimensions should not exceed 3 feet high, by 3 feet wide, by 3 feet deep. Total exhibit weight may not exceed 150 pounds (movable by a team of 2 people).
3. Wheeled exhibits must utilize a breaking mechanism which prevents the exhibit from freely rolling while on display.
4. Each exhibit must be free-standing or sufficiently supported by an exhibitor supplied support system that is moveable and is part of the total demission’s and weight of the exhibit as described previously. Exhibit boards should have a portable and moveable base. No exhibits may be staked to the ground for display.
5. Top heavy items should be braced or placed in a stand sufficient to prevent it from toppling over while on display.
6. Exhibits may not be bound, affixed, attached to the fair buildings.
7. Painting or spot painting is not allowed on projects after arrival on fairgrounds. If wet paint is detected by judge or superintendents one ribbon placing will be deducted.
8. Repair projects having adequate original finish need not be repainted.
9. Cutting surfaces, such as blades or knives, are to have a protective covering over them to prevent injury. The covering should be easily removed and reinstalled for judging. Foam “pool noodles” and multiple layers of cardboard are acceptable.
10. Exhibits that include weaponry of any kind will be disqualified. Weaponry is defined as any instrument, possession, or creation, physical and/or electrical that is intended to be used to inflict damage and/or harm to individuals, animal life, and/or property.
11. If the exhibit is powered by flammable liquids (gas, propane, kerosene, etc.) the fuel tank and lines should be drained and allowed to dry, to avoid spills and potential fires.
12. Electric powered (battery, corded, solar, or alternative energy) should have a primary shutoff or disconnect switch.

13. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor’s exhibit, at the judges’ discretion, will receive a deduction in ribbon placement or a participation ribbon.
14. The exhibitor’s name(s) and county or district must be tagged or labeled in a prominent location on the display.
15. Each exhibit must include an Ag Mechanics information packet. Entry of just a packet without an accompanying exhibit is not a sufficient exhibit.
16. Each exhibitor is required to complete the “4-H STEM Ag Mechanics Exhibit Information Form” which is available through your local K-State Research and Extension office or at www.STEM4KS.com. This form must be attached to the outside of a 10” x 13” manila envelope. Do not tie the envelope to the exhibit.
17. Each exhibit information packet should include the following items: a. Bill of materials for the project with associated costs, scrap items used may be listed as having a $0.00 cost b. 1 to 5 pages of photos showing work on the exhibit, preferably from a beginning state to final or completed state c. If appropriate schematics or working drawings relating to the creation or repair d. If appropriate operating instructions.
18. Additionally exhibitors may create an optional video (not required) about their project showing its operation and the work they have done. This allows judges to get a better understanding of the exhibit and allows the youth the opportunity to fully demonstrate their exhibit. The video should be no longer than 8 minutes and should be placed on a USB drive. These videos may also be considered for inclusion in a running video loop in the STEM area at the fair after review by judges, superintendent(s), and extension staff. Adult guardians must complete the video release included with the exhibit form. If the release is not completed, the video will not be included in the video loop on display in the STEM area at the fair.

Introductory - Level 1 classes (about 1 - 3 years of experience) This level is designed for youth with little to no exposure in the project area so that they can gain an understanding of basic principles and methods in the given area.

Welding display board – a 3 foot by 3 foot display board with different pieces of metal attached illustrating different types of welds, each weld being labeled.
Class 1250J by 7-12 yr old member
Class 1250S by 13 and older member

Level 1 Welding ag repair – repair of ag equipment with welding
Class 1251J by 7-12 yr old member
Class 1251S by 13 and older member

Level 1 Welding ag fabrication – creation of new ag equipment with welding
Class 1252J by 7-12 yr old member
Class 1252S by 13 and older member

Level 1 Welding general repair – repair of non-ag equipment with welding
Class 1253J by 7-12 yr old member
Class 1253S by 13 and older member

Level 1 Welding general fabrication – creation of non-ag equipment with welding
Class 1254J by 7-12 yr old member
Class 1254S by 13 and older member

Level 1 Welding artistic fabrication – creation of artistic or interpretive pieces with welding
Class 1255J by 7-12 yr old member
Class 1255S by 13 and older member

Level 1 Brazing repair
Class 1256J by 7-12 yr old member
Class 1256S by 13 and older member

Level 1 Brazing fabrication
Class 1257J by 7-12 yr old member
Class 1257S by 13 and older member

Smithing display board – a 3 foot by 3 foot display board with different pieces of forged metal attached illustrating different forms, each form being labeled
Class 1258J by 7-12 yr old member
Class 1258S by 13 and older member

Level 1 Smithing – A design forged with at least one formed element (twists or spirals for example)
Class 1259J by 7-12 yr old member
Class 1259S by 13 and older member

Experienced – Level 2 classes (about 4 - 6 years of experience) This level is designed for youth with some experience in the project area allowing them to expand on common principles and methods in the given area.

Level 2 Welding ag repair – repair of ag equipment with welding
Class 1263J by 7-12 yr old member
Class 1263S by 13 and older member

Level 2 Welding ag fabrication – creation of new ag equipment with welding
Class 1264J by 7-12 yr old member
Class 1264S by 13 and older member

Level 2 Welding general repair – repair of non-ag equipment with welding
Class 1262J by 7-12 yr old member
Class 1262S by 13 and older member

Level 2 Welding general fabrication – creation of non-ag equipment with welding
Class 1263J by 7-12 yr old member
Class 1263S by 13 and older member

Level 2 Welding artistic fabrication – creation of artistic or interpretive pieces with welding
Class 1264J by 7-12 yr old member
Class 1264S by 13 and older member

Level 2 Brazing repair
Class 1265J by 7-12 yr old member
Class 1265S by 13 and older member

Level 2 Brazing fabrication
Class 1266J by 7-12 yr old member
Class 1266S by 13 and older member

Level 2 Smithing – A design forged with at least two different formed elements (twists and spirals for example)
Class 1267J by 7-12 yr old member
Class 1267S by 13 and older member

Advanced – Level 3 classes (about 7 - 9 years of experience) This level is designed for youth with vast experience in the project area allowing them to master common principles and methods and expand on advanced techniques in the given area.

Level 3 Welding ag repair – repair of ag equipment with welding
Class 1268S by 13 and older member

Level 3 Welding ag fabrication – creation of new ag equipment with welding
Class 1269S by 13 and older member

Level 3 Welding general repair – repair of non-ag equipment with welding
Class 1270S by 13 and older member

Level 3 Welding general fabrication – creation of non-ag equipment with welding
Class 1271S by 13 and older member

Level 3 Welding artistic fabrication – creation of artistic or interpretive pieces with welding
Class 1272S by 13 and older member

Level 3 Brazing repair
Class 1273S by 13 and older member

Level 3 Brazing fabrication
Class 1274S by 13 and older member

Level 3 Smithing – A design forged with at least three different formed elements (twists, spirals, and bulbs for example)
Class 1275S by 13 and older member

**Master** – Level 4 classes (10 or more years of experience) This level is designed for youth substantial experience in the project area allowing them to master advanced techniques in the given area.

**Level 4 Welding ag repair** – repair of ag equipment with welding  
Class 1276S by 13 and older member

**Level 4 Welding ag fabrication** – creation of new ag equipment with welding  
Class 1277S by 13 and older member

**Level 4 Welding general repair** – repair of non-ag equipment with welding  
Class 1278S by 13 and older member

**Level 4 Welding general fabrication** – creation of non-ag equipment with welding  
Class 1279S by 13 and older member

**Level 4 Welding artistic fabrication** – creation of artistic or interpretive pieces with welding  
Class 1280S by 13 and older member

**Level 4 Brazing repair**  
Class 1281S by 13 and older member

**Level 4 Brazing fabrication**  
Class 1282S by 13 and older member

**Level 4 Smithing** – A design forged with at least four different formed elements (twists, spirals, and bulbs for example)  
Class 1283S by 13 and older member

**STEM ARCHITECTURAL BLOCK CONSTRUCTION**  
*Description:* The STEM ABC exhibit area is a new STEM project for 2021. The project is starting with an emphasis on using architectural blocks (“Legos”) to construct dioramas. This project allows youth to explore architectural design in a three dimensional space. The intent is for this program start with foundational ideas of architecture, some of which youth may already have, and allow youth to continue to build on this knowledge becoming more and more experienced.

1. Exhibits must have been constructed during the current 4-H year.
2. Total exhibit dimensions may not exceed 2 feet high, by 2 feet wide, by 2 feet deep.
3. All exhibits should be placed in a sturdy see through enclosure with a top, bottom, and 4 sides. A fish tank would be an acceptable enclosure. This is to keep exhibit parts from being “scattered to parts unknown” at the fair.
4. All components used in construction should be dust free, clean, free of chips, scuffs, or cracks.
5. The primary building component should be interlocking blocks, commonly referred to by the brand name of Lego®
6. Other architectural components can be integrated into dioramas to illustrate architectural aspects that may be difficult to convey with traditional interlocking blocks.
7. The use of existing “store bought” sets for major architectural elements of the display is not allowed, use of figurines from sets is allowed as are using individual bricks to create something different than the architectural component of the set it came from.
8. Displays must have significant architectural components (walls, windows, doors, roofs, canopies flying buttresses, etc.), landscapes are discouraged.
9. Architectural elements should have a consistent look, walls with no pattern or consistency will be deducted one ribbon placing.
10. Gaps or cracks should not be visible between assembled blocks.
11. Doors should open and close, windows can be either fixed or open and close.
12. Vehicles that are intended to stay in a single place should be affixed to base plates with sticky tack, hot glue, or other method.
13. Reveals that show the inside of a structure are acceptable, such as only having three walls to allow an unobstructed view into a room.
14. Mechanical enhancements or motion elements that add motion to the diorama are acceptable and encouraged. If used, judges should be able to use them and instructions should be provided for operation.
15. Artistic designs with no architectural design/components are not permitted and two ribbon placings will be deducted.
16. The exhibitor’s name(s) and county or district must be tagged or labeled in a prominent location on the display.
17. Each exhibit must include an Architectural Block Construction information packet. Entry of just a packet without an accompanying exhibit is not a sufficient exhibit.
18. Each exhibitor is required to complete the “4-H STEM Architectural Block Construction Exhibit Information Form” which is available through your local K-State Research and Extension office or at www.STEM4KS.com. This form must be attached to the outside of a 10” x 13” manila envelope. Do not tie the envelope to the exhibit.
19. Each exhibit information packet should include the following items: a. At least one drawing of the desired architecture on graph paper, multiple views (top, front, side) are preferred b. 1 to 5 pages of photos showing work on the exhibit, preferably from a beginning state to final or completed state c. If appropriate operating instructions for mechanical portions of the diorama.
20. Additionally exhibitors are required to create a video about their project discussing their construction experiences and the architectural elements of the diorama. This allows judges to get a better understanding of the exhibit and allows youth the opportunity to fully explain their exhibit. The video should be no longer than 8 minutes and should be placed on a USB drive. These videos may also be considered for inclusion in a running video loop in the STEM area at the fair after review by judge, superintendent(s), and extension staff. Adult guardians must complete the video release included with the exhibit form. If the release is not completed the video will not be included in the video loop on display in the STEM area at the fair.

**Introductory** - Level 1 classes (about 1 - 3 years of experience)

Diorama illustrating at least 2 architectural features beyond floors, ceilings, and walls

Class 1300J by 7-12 yr old member  
Class 1300S by 13 and older member

**Experienced** – Level 2 classes (about 4 - 6 years of experience)

Diorama illustrating at least 4 architectural features beyond floors, ceilings, and walls, and includes 1 or more motion elements

Class 1301J by 7-12 yr old member  
Class 1301S by 13 and older member

**Advanced** – Level 3 classes (about 7 - 9 years of experience)

Diorama illustrating at least 6 architectural features beyond floors, ceilings, and walls, and includes 2 or more motion elements

Class 1302S by 13 and older member

**Master** – Level 4 classes (10 or more years of experience)

Diorama illustrating at least 8 architectural features beyond floors, ceilings, and walls, and includes 3 or more motion elements

Class 1303S by 13 and older member

**STEM ASTRONOMY**

1. Telescopes entered may be built from a kit or original design. Pre-finished telescopes which require no construction or painting are not acceptable exhibits.

2. Telescopes are limited to no more than six feet in length, must be placed on a stationary stand that does not allow the telescope to roll and/or fall over, and the stand cannot extend past two feet in length or width.

3. Each exhibit must include a “4-H Astronomy Exhibit Information Form” which should be attached to the outside of a 10”x13” manila envelope, must also include construction plans (or a photocopy) of the telescope and place it inside the manila envelope.

4. Two photographs showing telescope construction and operation are required. Photographs should be mounted on one side of an 8½”x11” page. A brief caption should accompany each photograph. Place photos in the 10” x 13” manila envelope.

5. Telescope must be properly assembled and painted with a smooth and uniform finish. Decals, if used, should be attached smooth and tight.

6. Telescopes designed by the exhibitor must be original, not a modification of an existing kit.

**Telescope made from Kit**  
Class 1310J by 7-12 year old member  
Class 1310S by 13 and older member

**Telescope made from Original Design**  
Class 1311J by 7-12 year old member  
Class 1311S by 13 and older member

**STEM COMPUTERS**

1. The 4-H computer project teaches concepts related to computers, hardware knowledge, software programming and applications, internet safety, the building, maintenance and repair of computers and future career opportunities. Please note that the actual construction of computer hardware (i.e., building a computer, electronic devices with a mother-board based manipulation) will remain in the Energy Management division.

2. The 4-H members must be currently enrolled in the 4-H STEM – Computers project to exhibit in this division.

3. Exhibit must have been completed during the current 4-H year.

4. Exhibitor’s name, county or district, 4-H age, and years(s) in project must be tagged or labeled in a prominent location on the exhibit.

5. See the last section for full details about exhibiting posters, display boards and notebooks.

**COMPUTER SYSTEMS**

The Kansas 4-H STEM Computer System portion of the computer project is designed to allow 4-H members to explore how information is moved from one part of the computer to the other; how information is moved between two or more computer system (networking); how information is stored; or how information is acted on (programming). Any item which IS NOT a notebook, display board, or poster displayed in this class is considered a “computer system” exhibit and MUST follow the rules set forth below.

1. All exhibits must be: a. Self-contained on a USB drive (thumb drive, flash drive, jump drive, or other any other name for a small USB storage device; the rules will use “USB drive”). This means that a judge can plug in the USB drive into a computer and be able to run the exhibit as described below. OR b. System -On-A-Chip (SOC) (such as Raspberry Pi) or a Micro-Controller (such as an Arduino or Ozobot) AND is a compact (less than 8”X
8”X 8”) system, which can be programmed AND requires minimal assembly to operate (e.g. connecting power, display, and keyboard/mouse cables). Referred to as a “chip system” through the rest of the rules.

2. Physical computers such as tablets, smart phones, laptops, or personal computers (PCs) will not be accepted as an exhibit.

3. “Chip system” may use/include GPIO bread boards or HATs (Hardware Attached On Top) the size of which is not included in the size of the chip system however the total size of the chip system and GPIO devices may not exceed 24”X24”X24” including any protective enclosures.

4. Any attached GPIO devices are not judged for electrical construction or quality as this division is focused on the operational aspects of the system that have automated articulated structures (arms, wheels, grippers, etc.) which the exhibitor constructed, can also be classified as a robot, and the exhibitor must decide which division to exhibit in as the exhibit may not be entered in the both divisions.

5. For chip system, all electric components of the system must be adequately covered or concealed with a protective enclosure. Paper is NOT considered an adequate enclosure or covering for the electrical components.

6. All revisions of all forms previously released for the STEM division either undated or dated prior to current year are void for use and new forms must be obtained and used that are dated by the Kansas State 4-H Office for the current year. Use of old forms will result in the loss of one ribbon placing for exhibits.

7. For all computer system entries, the following items are required as part of an exhibit packet: a. A manila envelope with the Computer Exhibit Form attached to the front, this form can be downloaded at www.STEM4KS.com. b. A USB drive labeled with the 4-Hers name, county/district, and club; in a way that does not prevent it from being plugged into a computer. c. For exhibits that are entered on USB drives, at least one (1) graphic (picture, screen shot/capture, slide, etc.) of the project must be printed out on an 8.5” X 11” sheet of standard computer paper, placed in a plastic sheet protector, to allow for proper display and recognition at the Kansas State Fair. This is what will be displayed during the fair, all other materials will be sent back to the county/district office. On the back side of the graphic the 4-Her’s name, county/district, and club should be listed. d. Instructions to run any part of the exhibit on the USB drive. (There should be at least three (3) items in your manila envelope: USB drive, graphic and instructions).

8. Each exhibit must be accompanied by a “4-H Engineer’s Journal.” The engineer’s journal should be typed. It can either be included electronically on the USB drive (preferred) or printed and placed in the manila envelope. a. The “4-H Engineer’s Journal” should start with a dated entry describing what the 4-H member is trying to accomplish/build. b. The “4-H Engineer’s Journal” should conclude with a dated entry describing what the 4-H member achieved in creating. (The start and end many times will be different. The judges are interested in the journey). c. Additional entries in the “4-H Engineer’s Journal” should be made as progress occur describing successes and failures; as well as the steps done and any sources of information including links used. d. Pictures can also be included in the “4-H Engineer’s Journal” but should not be more than 50% of the entries. e. The “4-H Engineer’s Journal” should contain at least one graphic. f. The “4-H Engineer’s Journal” must be at least 3 pages in length. g. An example of a “4-H Engineer’s Journal” can be found at www.STEM4KS.com. h. The “4-H Engineer’s Journal” will comprise 50% of the overall exhibit score. Failure to include a “4-H Engineer’s Journal” will result in the exhibit being disqualified.

9. If the exhibit is a program, application, app, web site, or requires any coding, the source code must be included on the USB drive. Failure to include a copy of the “source code” may result in up to one ribbon place deduction.

10. Diagrams or decision trees showing the logical flow of the system must be included on the USB drive for all exhibits.

11. FOR COUNTY FAIRS, it is recommended that 4-Hers bring a computer that will run their project to the fair for judging as judges typically do not bring computers with them. Operating instructions are still required. Instructions should be written as though you were helping a less techy person, (like a grandparent) use the USB drive with a computer similar to what is described in rule 9. An example of instructions can be found at www.STEM4KS.com.

12. Each exhibit MUST include a video of the youth following their instructions for operation. This allows judges to get a better understanding of the exhibit and allows the youth the opportunity to fully demonstrate their exhibit. The video should be no longer than 8 minutes and should be placed on the USB drive. These videos may also be considered for inclusion in a running video loop in the STEM area at the fair after review by judges, superintendent(s), and extension staff. Adult guardians must complete the video release included with the exhibit form. If the release is not completed the video will not be included in the video loop on display in the STEM area at the fair. 13. Each exhibit must accomplish a specific automated task using a computer, a chip system, or virtual machine (VM).

14. Exhibitors should take great care and only go on-line with their guardian’s permission. User names and passwords should not be included in exhibits. If they are required to view the content, a temporary user account and password should be created for judging at the fair, once judging is complete the user name and password should be disabled on the account. If a separate user account is not possible, the content should be included as part of the video. YOU SHOULD NOT SHARE YOUR USER NAME OR PASSWORD WITH OTHERS.
15. Kansas 4-H STEM has made available Linux Virtual Machines (VMs) that can be downloaded and used to create projects on such as web servers, networking, and many other projects. For more information on how these VMs can be leveraged or to download them visit www.STEM4KS.com. 4-Hers are not required to use the VMs in their projects. They are optional.

16. All licensing should be adhered to for any software used in the exhibit. Failure to do so will result in a reduction of one ribbon placing and may not be considered for best of show.

17. The creation of viruses, malware, malicious applications or code, defamatory language or graphics, bullying, or any material that is “mean,” “dangerous,” or harmful according to the judge’s opinion will result in the exhibit being disqualified.

18. Pictures or still graphics created are not eligible for entry as a project in this division and should be entered in the appropriate photography division.

19. Judging will be based on a score sheet which can be found at www.STEM4KS.com. There are four (4) areas each exhibit will be judged on. They are: a. 4-H Engineers Journal (what I learned to make it work), 50% overall score b. Instructions (how I help others make it work), 25% overall score c. Functionality (does it work), 12% overall score d. Diagrams (and code if applicable) (how I think it works), 13% overall score.

Computer Program, Application, App, Script, or Coded System that is new and unique (not merely a file run in a program, such as a ‘word document’ or a picture drawn in ‘Microsoft Paint’.

Class 1315J by 7-12 yr old member
Class 1315S by 13 and older member

Computer Presentation such as power point, web page/site, animated graphics, etc.

Class 1316J by 7-12 yr old member
Class 1316S by 13 and older member

Single Computer System such as web server, database server, etc.

Class 1317J by 7-12 yr old member
Class 1317S by 13 and older member

Networked System consisting of two or more computers

Class 1318J by 7-12 yr old member
Class 1318S by 13 and older member

Chip System a small (4-8”x4-8”x4-8”) programmed physical device that accomplishes a specific task

Class 1319J by 7-12 yr old member
Class 1319S by 13 and older member

STEM ROBOTICS
1. 4-H members must be currently enrolled in the Kansas 4-H STEM - Robotics project to exhibit in this division.

2. Exhibit must have been constructed and/or completed during the current 4-H year.

3. Each robot must be free-standing, without the need for additional supports in order to be moved or exhibited. Each exhibit must include a robot, information packets are not a sufficient exhibit.

4. Robots must have automated articulated structures (arms, wheels, grippers, etc.). Game consoles that display on a screen are not considered robots and should either be entered in computer system division or energy management project. Robots requiring no assembly, just programming, such as Ozobots, are considered computer system projects as the skill is focused on the programming not on the construction of the robot.

5. Robot dimensions should not exceed 2 feet high, by 2 feet wide, by 2 feet deep. Weight may not exceed 15 pounds. If displayed in a case (not required or encouraged) the outside case dimensions may not be more than 26 inches in height, width, or depth.

6. Materials including but not limited to obstacles, spare batteries, and mats for testing the robot may be placed in a separate container, which is not included in the robots dimensions, that container may not be larger than 576 cubic inches as measured along the outside of the container. (Examples: 4”X4”X36” or 4”X8”X18” or 6”X6”X16”) The container, if used, and/or any large objects (such as mats or obstacles) should be labeled with the exhibitors name(s) and county or district.

7. All electric components of the robot must be adequately covered or concealed with a protective enclosure. Paper is NOT considered an adequate enclosure or covering for electrical components.

8. Robots may be powered by an electrical, battery, water, air or solar source only. Junk drawer robots may be powered by a non-traditional power source. Robots powered by fossil fuels/flammable liquids will be disqualified. Robots that include weaponry of any kind will be disqualified. Weaponry is defined as any instrument, possession or creation, physical and/or electrical that could be used to inflict damage and/or harm to individuals, animal life, and/or property.

9. Remote controlled robots are allowed under certain conditions provided that the robot is not drivable. Robotic arms (hydraulic or electric) are allowed. A remote is allowed provided more than a single action happens when a single button is pressed on the remote, for example “a motor spins for 3 seconds, at which point an actuator is triggered, then the motor spins for 3 more seconds.” Remote controlled cars, boats, planes and/or action figures, etc. are not allowed.

10. Each robot must be in working condition. The judges will operate each robot to evaluate its workmanship and its ability to complete year its intended task. In the event the robot uses a phone, tablet, or similar device for programming AND control of the robot a video will be used to evaluate the working condition of the robot.

11. Each exhibitor is required to complete the “4-H STEM Robotics Exhibit Information Form” which is available
through your local K-State Research and Extension office or at www.STEM4KS.com. This form must be attached to the outside of a 10” x 13” manila envelope.

12. The exhibit must include written instructions for operation (the instructions should be written as if they were to tell a grandparent or elderly person how to operate the robot), construction plans, and one to three pages of project photographs. In addition a 5 minute video presentation placed on a CD, DVD, USB drive, or similar removable storage device, if applicable. For robots that can be programmed, robot programming information must be included, this information should be placed inside the 10” x 13” manila envelope mentioned above. The exhibitor may enter their electronic project listed under the energy management program if the exhibitor so chooses. No exhibitor will be allowed to set up their robot in person.

13. In the event that the robot uses a device like a phone, iPad, or tablet for programming AND operation, DO NOT include the device (phone, tablet, etc.). The device’s safety cannot be insured. Instead record a video demonstrating the instructions included for your robot. It should show, setting up the robot, starting the robot, the robot executing its task, and powering off the robot, just like the instructions are written.

14. Each exhibit MUST include a video of the youth following their instructions for operation. This allows judges to get a better understanding of the exhibit and allows the youth the opportunity to fully demonstrate their exhibit. The video should be no longer than 8 minutes and should be placed on the CD, DVD, USB drive, or similar. These videos may also be considered for inclusion in a running video loop in the STEM area at the state fair after review by judge, superintendent(s), and extension staff. Adult guardians must complete the video release included with the exhibit form. If the release is not completed the video will not be included in the video loop on display in the STEM area at the fair.

15. Creativity, workmanship, and functionality will be strong criteria in judging the “Robot designed by Exhibitor” classes. All robots should have a purpose or intended function, examples include, but are not limited to: following a line, sweeping the floor, solving a rubix cube, sorting colors, or climbing stairs.

16. Exhibitor’s name(s) and county or district must be tagged or labeled in a prominent location on the robot.

17. There are no county or district boundaries that must be adhered to in order to form a Kansas 4-H STEM Robotics team. However, each team member must be currently enrolled in the Kansas 4-H STEM project.

Novice Ages 7-8 years
Robot made from Commercial (purchased) Kit
Class 1320J by 7-12 year old member
Class 1320S by 13 and older member

Robot Designed and Constructed by Exhibitor  The robot must not be a mere modification of an existing robot kit or plan.
Class 1321J by 7-12 year old member
Class 1321S by 13 and older member

Programmable robot made from Commercial (purchased) Kit
Class 1322J by 7-12 year old member
Class 1322S by 13 and older member

Robot Designed and Constructed by Exhibitor or from a commercial kit that is operated by a remote controlled device.
Class 1323J by 7-12 year old member
Class 1323S by 13 and older member

Junk Drawer Robotics
Class 1324J by 7-12 year old member
Class 1324S by 13 and older member

Intermediate Division Ages 9 to 13 years
Robot made from Commercial (purchased) Kit (No programming, just assembly.)
Class 1326J by 9-12 year old member
Class 1326S by 13 and older member

Robot Designed by Exhibitor  The robot must not be a mere modification of an existing robot kit or plan.
Class 1327J by 7-12 year old member
Class 1327S by 13 and older member

Programmable robot made from Commercial (purchased) Kit
Class 1328J by 12 year old member
Class 1328S by 13 and older member

Robot Designed and Constructed by Exhibitor or from a commercial kit that is operated by a remote controlled device.
Class 1329J by 7-12 year old member
Class 1329S by 13 and older member

Junk Drawer Robotics
Class 1330J by 7-12 year old member
Class 1330S by 13 and older member

Senior Division Ages 14 and up
Robot made from Commercial (purchased) Kit (No programming, just assembly.)
Class 1332J by 7-12 year old member
Class 1332S by 13 and older member

Robot Designed by Exhibitor  The robot must not be a mere modification of an existing robot kit or plan.
Class 1333J by team of 7-12 old members
Class 1333S by team of 13 and older members
A. Exhibit Information for ALL rocketry categories:
1. All revisions of all forms previously released for the STEM division either undated or dated prior to current year are void for use and new forms must be obtained and used that are dated by the State 4-H Office for the current year. Use of old forms will result in the loss of one ribbon placing for exhibits.
2. Relevant documents may be obtained from County Extension Offices or from www.STEM4KS.com
3. NAR refers to the National Association of Rocketry and its governing board.
4. Tripoli refers to the Tripoli Rocketry Association and its governing board.
5. All NAR documents, with the exception of the “pink book,” referenced herein can be found at http://www.nar.org.
6. If a fire burn ban is in effect for Jewell County, Kansas, exhibitors are not required to launch their rocket(s). All requirements for the launching of rockets for the fair and the documenting of the launching are suspended for the duration of the ban.

B. Exhibit Definitions for ALL rocketry categories:
1. High power certification is defined as having successfully completed a certification program for high-powered rocketry through the NAR or Tripoli and maintaining that certification. This applies to all membership levels in the NAR and Tripoli. Specifically the “Formal Participation Procedure” for the “Junior HPR Level 1 Participation Program” as outlined by the NAR and the “Tripoli Mentoring Program (TMP)” as outlined by Tripoli.
2. Adult supervision is defined as being under the direct supervision of someone 18 years of age or older.
3. Junk Drawer Robotics
   Class 1336J by 7-12 year old member
   Class 1336S by 13 and older member

   Team Division - Team Robotics Project
   Robot designed and constructed by 2 or more 4-H STEM project members. The robot must not be a mere modification of an existing robot kit or plan. The robot may be a programmable type that is made from a commercial (purchased) kit. This division is designed to encourage teamwork and cooperation among fellow 4-H STEM members. As with many high tech projects today, no one person designs and builds a robot alone. It takes the brainstorming, planning, problem solving, and cooperation of an entire team to complete a given robotics project.
   Class 1338J by 7-12 year old member
   Class 1338S by age 13 and older

   STEM ROCKETRY
   The Kansas 4-H Stem Rocketry program is designed to allow 4-H members to explore aerospace through rockets of various sizes. Kansas 4-H has adopted the National Association of Rocketry’s rules, regulations, and safety guidelines.

   A. Exhibit Information for ALL rocketry categories:
      1. As defined by the National Association of Rocketry (NAR), a scale model is “any model rocket that is a true scale model of an existing or historical guided missile, rocket vehicle, or space vehicle.” The intent of scale modeling is, according to the NAR, “to produce an accurate, flying replica of a real rocket vehicle that exhibits maximum craftsmanship in construction, finish, and flight performance.” (NAR “Pink Book” 50.1 4-1)
      2. Adult supervision is defined as being under the direct supervision of someone 18 years of age or older.
      3. For the purposes of Kansas 4-H STEM a mid-powered rocket is defined as a rocket that uses an ‘E’, ‘F’, ‘G’, or equivalent engine for launch. In addition, rockets also qualify for mid-power if they meet any of the following criteria: a. Is 2 inches or greater in diameter (not including fins) and taller than 3 feet (36 inches including fins) and do not use an engine(s) exciding 160.01 Newton seconds of total impulse (an ‘H’ engine equivalent or above). b. The total impulse of all engines used in the rocket is greater than 20.01 Newton-seconds and less than 160.01 Newton-seconds.
      4. For the purposes of Kansas 4-H STEM a high-powered rocket is defined as a rocket that meets any of the following criteria: a. Weighs more than 3.3125 pounds (53 ounces or 1500 grams) at the time of launch; b. Uses a ‘H’ engine or larger to launch; c. The total impulse of all engines used in the rocket is greater than 160.01 Newton-seconds of thrust; d. Includes any airframes parts of ductile, metal, though, the use of ductile metal is strongly discouraged; e. Models powered by rocket motors not classified as model rocket motors per NFPA 1122, e.g.: i. Average thrust in excess of 80.01 Newtons, ii. Contains in excess of 125 grams of propellant and are limited to only H and I motors, iii. Uses a hybrid motor or a motor designed to emit sparks.
      5. High power certification is defined as having successfully completed a certification program for high-powered rocketry through the NAR or Tripoli and maintaining that certification. This applies to all membership levels in the NAR and Tripoli. Specifically the “Formal Participation Procedure” for the “Junior HPR Level 1 Participation Program” as outlined by the NAR and the “Tripoli Mentoring Program (TMP)” as outlined by Tripoli.
      6. NAR rules for launching and construction of all rockets are assumed to be used by all 4-H STEM exhibitors and will be considered during judging.
      7. For the purposes of Kansas 4-H STEM, NO rocket may be launched using engines totaling more than an ‘I’ impulse engine or 640 Newton-seconds of total thrust.

C. Exhibit Rules for ALL rocketry categories:
Purpose: These rules apply to how rockets are to be displayed at the fair and what those displays should and should not contain. These rules apply to all rockets displayed in the STEM division.
1. 4-H members must be currently enrolled in the 4-H STEM-Rocketry program to exhibit in this division.

2. The report that accompanies the rocket must be limited to the 4-H STEM Rocket Exhibit Information Form which is affixed to a 10” x 13” envelope. This envelope should NOT be attached to the rocket stand or rocket. The information form should be signed by the exhibitor. This may be downloaded from www.STEM4KS.com. Any rocket exhibit not including this completed envelope will receive an automatic participation ribbon.

3. Plans (or a photocopy) must be placed inside the envelope. a. This includes original design rockets. b. If a rocket kit has been modified structurally (Which must provide all necessary details to construct an original design rocket.), notations need to be given indicating the changes made, either by notations on the Rocket Exhibit Information Form or by placing notes in the plans. Such modifications require the rocket to be swing tested and documented to show a stable flight.

4. One or more photographs of the rocket during construction and at the launch site are required. a. Photographs showing the rocket at the moment of ignition are preferred. b. Photographs must be mounted on one side of 8 ½” x 11” page(s). c. There must be at least 1 page of photos and no more than 5 pages of photos. d. Include at least one photo showing rocket construction, preferably with the exhibitor included. e. Do not include photos of members catching their rockets as they return to earth. This is an unsafe practice, and we do not recommend or condone this practice. f. Pictures at the launch site are not required in the event of a burn ban.

5. To exhibit in this division: a. The rocket must have been flown, unless a burn ban is in effect. b. Support rods must not extend past the tip of the highest nosecone on the model. c. Support rods must remain in the upright position, 90 degrees to the display base, do not angle. If support rods are not perpendicular to the base, the judge should deduct two ribbon placings. d. No model may be submitted on a launch pad.

6. Launches should not be conducted in winds above 20 mph, and will constitute a disqualification of rocket exhibit.

7. All rockets must have a safe method of recovery, e.g., parachute, streamer or tumble recovery. Any rocket without a recovery system will be disqualified.

8. The altitude achieved by the rocket is to be determined using a method other than estimation. Examples of accepted methods include altimeter, computer software, range finders, etc. If additional space is needed to show calculations of how the altitude was achieved one additional page may be added to the rocketry information pack.

9. Flight damage is to be documented by the participant on either the construction plans or the 4-H STEM Rocket Exhibit Information Form.

10. The judging of flight damage is to be secondary to all other aspects of the model and only then may it even be considered. However under no circumstance may flight damage be grounds for disqualification.

11. Engines and igniters, under any circumstance, ARE NOT permitted with the exhibit and constitute an immediate disqualification.

12. If an engine becomes stuck, jammed, wedged, or in any other way permanently affixed in or to a rocket and cannot be removed from the rocket, the rocket will be subject to immediate disqualification. This is because it is not possible to make a full and immediate assessment of the safety of the rocket when it is being judged and safety is paramount.

13. Engines may not be used as display stands hollowed out or otherwise. This is a significant change from previous year’s rules. Engines used as a display stand will be subject to immediate disqualification.

14. Rocket engines should not be used to join multi-stage rockets together. a. Multi-stage rockets can be displayed without having the stages connected together. In that case the final stage (the one with the nose cone) should be placed on the display stand, and other stages with a loop of string to the display stand. b. The different stages must be included to complete the rocketry exhibit, incomplete exhibits will be deducted at least one ribbon placing. c. Use of any engines to join the stages together will be subject to immediate disqualification.

15. Multi-stage rockets can be flown using just the final stage and be considered fully flown.

16. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor’s rocket, at the judges’ discretion, will receive a participation ribbon. All information necessary will be given to the NAR and/or TRIPOLI for investigation and possible revocation of membership.

D. Construction Rule for All Rockets

Purpose: These rules apply to the construction of all rockets displayed in the STEM division.

1. Rockets are to be properly assembled according to the assembly instructions.

2. Beginner kits with prefabricated fin assemblies and pre-finished rockets requiring no painting are not acceptable, and will be disqualified.

3. Plastic snap together fins and prefabricated fin assemblies that do not require fin alignment are not acceptable, and will be disqualified. a. This rule does not apply to plastic fins that must be manually aligned and do not utilize a fin alignment mechanism, including, but not limited to fin alignment rings or spacing blocks. b. This rule does not apply to fiberglass, Kevlar, extruded foam, composite, or wood fins; especially when used for “through-the-wall” fin attachment techniques that are common in larger rockets. c. In addition, plastic parts for decorative and mechanical purposes (i.e. decorative nozzles and moving landing struts) are not considered fins and can consist of plastic. Decorative nozzles, etc.
need to be securely fastened and not pose a safety hazard. d. Fin assemblies that are printed using a 3D printer are excluded from this rule. Through detailed instructions on the creation of the fin assemblies must be provided and an additional page of photos may be included to show the creation/ printing of fin assemblies.

4. Angles of fins must fall within a plus or minus 2 degree variation using an approved fin alignment guide (such as KSSTAC10). An official fin guide is available from www.STEM4KS.com.

5. Fins should be rounded or streamlined according to instructions. If the other edges are rounded to reduce drag on all exposed sides, there should be no ribbon deduction, unless instructions indicate to leave flat.

6. Fins and body tubes are to be sealed with sanding sealer and/or primer to eliminate the appearance of body grooves and wood grain.

7. Fins and launch lugs are to be filleted to reduce drag and properly secure them to the model.

8. Engine mounts are to be securely attached to the body tube.

9. Any seams on plastic parts are to be sanded smooth.

10. Body tubes/airframes/engine mounts can be made from suitable materials, including, but not limited to:
    reinforced paper, cardboard, phenolic resin, specialized polymer resins, fiberglass, Kevlar, or other suitable structural materials. However, foam may not be used for external body or other external rocket parts.

11. The nose cone is to fit snugly but still allow for easy removal.

12. Exhibits must be uniformly painted and smoothly finished or finished as per rocket instructions, and have decals applied smoothly.

13. Non-standard surfacing (such as textured paint) may be used if directed by the instructions, this includes scratch built rockets.

14. Models may not be judged based on their paint scheme (colors and placement on the rocket), with the exception of rockets that fit the definition of a ‘scale model.’ All other rockets do not have to follow the suggested paint scheme, allowing the 4-H’er to display maximum creativity in the finishing of their rocket. Under no circumstances is the weight given to the paint scheme to be sufficient enough, by itself, to move the model from one ribbon placing to another.

15. “Scale models” may be judged based on their paint scheme. The judge may deduct up to one ribbon placing for not following the paint scheme.

16. Scale Model Rockets are to be finished and completed with a majority (greater than 70%) of decals.

17. If a modification is made to the rocket, for example, adding a fin, a swing test must be conducted on the rocket, and the documentation provided. Failure to test and document flight stability following modifications will result in two ribbon placing deductions.

E. Model Rocketry Specific Guidelines (ages 9 and up):

Purpose: Model rockets are generally small-to-medium sized rockets that can be purchased at hobby stores that an individual(s) builds from parts similar to those found in model rocket kits.

1. Rockets classified as high or mid powered may not be entered in this category.

2. Each rocket must be able to stand freely by itself or be supported by a solid base, not to exceed 4-1/4” (four and one quarter inch) thick and 8” square. The exhibitor’s name, county or district, and age must be labeled on the top of the base. Rod materials should be sturdy, and not made of flimsy materials, such as coat hangers.

3. If the model rocket is greater than 4 feet tall it can be displayed without a base or displayed parallel to the ground with up to 3 notched blocks not to exceed 4” in height width and depth. The exhibitor’s name, county or district, and age must be labeled on the base(s).

4. All exhibitors must comply with the NAR Model Rocket Safety Code that is in effect as of October 1st of the current 4-H year. However, in the event that there is a modification in this code, the STEM Action Team may review and implement the modified code.

F. Original Design Specific Rocket Guidelines (ages 11 and up):

Purpose: To allow for youth to develop their own rockets (model, mid, and high powered) in a safe manner that displays maximum craftsmanship.

1. Original design rockets cannot be a modification of a pre-existing kit and must be of original design.

2. Original design rockets must be designed by the exhibitor(s).

3. Original design rockets must include detailed instructions, so that someone could construct the original designed rocket just like a kit purchased at a store.

Instructions can be as many pages as needed to convey full and complete construction techniques.

4. Original design rocket instructions should not include copies of instructions in part or in whole from existing kits.

5. For a rocket entered in the original design classes, describe in the summary how the rocket was tested for stability prior to flying. Swing testing of the rocket is required. Other tests and calculations are encouraged. Exhibitors must include documentation of the swing test. Failure to swing test a rocket will result in a deduction of TWO ribbon placings.

6. A minimum of one additional page must be added to the rocketry information pack detailing the test(s) performed to insure stability. 4-Her’s are strongly encouraged to provide as much detail as possible. Failure to provide adequate written documentation will result in a disqualification.

Division A - Exhibitors 9 through 13 years old

Rocket made from kit. Include plans.

Class 1350J by team of 7-12 old members

Class 1350S by team of 13 and older members
**Scale Model Rocket** made from kit includes plans.
**Class 1351J** by team of 7-12 old members
**Class 1351S** by team of 13 and older members

**Division B** - Exhibitors 11 through 13 years old (9-10 year olds may not enter in this class)

**Rocket made from kit.** Include plans.
**Class 1352J** by team of 7-12 old members
**Class 1352S** by team of 13 and older members

**Rocket designed by exhibitor:** not merely a modification of an existing kit. Include original plans.
**Class 1353J** by team of 7-12 old members
**Class 1353S** by team of 13 and older members

**Scale Model Rocket designed by exhibitor:** not merely a modification of an existing kit. Include original plans and stability testing.
**Class 1354J** by team of 7-12 old members
**Class 1354S** by team of 13 and older members

**Division C** - Exhibitors 14 years and older

**Rocket made from kit.** Include plans.
**Class 1355S** by team of 13 and older members

**Rocket designed by exhibitor:** not merely a modification of an existing kit. Include original plans.
**Class 1356J** by team of 7-12 old members
**Class 1356S** by team of 13 and older members

**Rocket designed by exhibitor:** that uses alternative skins; not merely a modification of an existing kit. Include original plans.
**Class 1357J** by team of 7-12 old members
**Class 1357S** by team of 13 and older members

**Scale Model Rocket made from kit.** Include plans.
**Class 1358J** by team of 7-12 old members
**Class 1358S** by team of 13 and older members

**Scale Model Rocket designed by exhibitor:** not merely a modification of an existing kit. Include original plans and stability testing.
**Class 1359J** by team of 7-12 old members
**Class 1359S** by team of 13 and older members

**Division D** - Exhibitors 11 years and older  
This class is designed to encourage teamwork among individuals and clubs to work on a rocket from the initial design to the finished product.

**Rocket designed by 2 or more exhibitors:** not merely a modification of an existing kit. Include original plans.
**Class 1363J** by team of 7-12 old members
**Class 1363S** by team of 13 and older members

**Mid-power Rocketry (2x’D’ to ‘G’ Engines) Guidelines:**

**Purpose:** To allow for improved safety and judging of rockets that meet the requirements of 4-H mid-power rockets.

1. Exhibitors must be at least 14 years of age by January 1 of the current year.
2. The rules for ALL categories apply.
3. In addition to the information packet completed for all rockets, a high/mid power information form is to be completed and placed inside of the information packet. This may be downloaded from [http://www.kansas4-H.org/](http://www.kansas4-H.org/). Click on KSF Packet link.
4. Exhibitors in this division must hold memberships in either NAR or Tripoli organizations.
5. The NAR Model Rocket Safety Code applies to the construction and launching of all rockets displayed in this division. As such all exhibitors must comply with the NAR Model Rocket Safety Code that is in effect as of October 1st of the current year. However in the event that there is a modification in this code the STEM Action Team may review and implement the modified code.
6. All rockets in this division are to be launched under adult supervision by the 4-H member who constructed the rocket.
7. High power rockets as defined above (‘H’ or ‘I’ engines) may not be launched in this division.
8. If according to Federal Aviation Regulations Part 101, a waiver is required to fly the rocket, a copy of that waiver is to be attached to the High Power Information Form. In the case where the launch was a public event a substitute to a copy of the waiver is the Range Safety Officers (RSO’s) contact information.
9. Mid-power rockets may be displayed without a supporting stand. If a supporting stand is used, it is not to exceed 4-1/4” (four and one-quarter inch) thick and 8” square. The exhibitor’s name, county or district, and age must be labeled on the base.

**Division E** - Exhibitors 14 years and older

**Mid Power Rocket Made from Kit or Original Design**
**Class 1364S** by 14 and older member

**High Power Rocketry Guidelines**

**Purpose:** To allow for improved safety and judging of rockets that meet the requirements of 4-H high power rockets.

1. Exhibitors must be at least 14 years of age by January 1 of the current year.
2. The rules for ALL categories apply.
3. In addition to the information packet completed for all rockets, a high power information form is to be completed and placed inside of the information packet. This may be downloaded from [www.STEM4KS.com](http://www.STEM4KS.com).
4. Exhibitors in this division must hold memberships in either NAR or Tripoli organizations.
5. The NAR High Power Rocket Safety Code applies to the construction and launching of all rockets displayed in this division. As such all exhibitors must comply with the NAR High Power Rocket Safety Code that is in
effect as of October 1st of the current 4-H year. However in the event that there is a modification in this code the STEM Action Team may review and implement the modified code.

6. All rockets in this division are to be launched under adult supervision by the 4-H member who constructed the rocket.

7. For rockets launched using an engine(s) that have 160.1 (‘H’ engine or equivalent amount of smaller engines) Newton’s-seconds or larger, adult supervision must be provided by an individual having at least a level 1 high power certification. The 4-H member should also hold or be attempting to attain their level 1 high power certification, and should include supporting documentation of such (a copy of Level 1 card is sufficient).

8. If according to Federal Aviation Regulations Part 101, a waiver is required to fly the rocket, a copy of that waiver is to be attached to the High Power Information Form. In the case where the launch was a public event a substitute to a copy of the waiver is the Range Safety Officers (RSO’s) contact information.

9. High Power Rockets may be displayed without a supporting stand. If a supporting stand is used, it is not to exceed 4-1/4” (four and one-quarter inch) thick and 8” square. The exhibitor’s name, county or district, and age must be labeled on the base.

Division F - Exhibitors 14 years and older
High Power Rocket Made from Kit or Original Design
Class 1365S by 14 and older member

STEM UNMANNED AERIAL SYSTEMS:

Purpose: The 4-H unmanned aerial system or UAS project explores the world from above the trees and discovers new frontiers with UASs. UASs are commonly known as Unmanned Aerial Vehicles (UAVs) or drones. Members explore the uses and applications of unmanned aerial system including how UASs link to other projects such as geology, robotics, electronics, crop science and many more.

1. The 4-H members must be currently enrolled in the 4-H STEM project to exhibit in this division.

2. Exhibit must have been completed during the current 4-H year.

3. The information that accompanies the UAS must be limited to the 4-H STEM Exhibit Information Form which is affixed to a 10” x 13” envelope. This envelope should NOT be attached to the UAS. This may be downloaded from www.STEM4KS.com. Any UAS exhibit not including this completed envelope will receive an automatic participation ribbon.

4. Each exhibit MUST include a video of the youth operating their UAS. This allows judges to get a better understanding of the exhibit and allows the youth the opportunity to fully demonstrate their exhibit. The video should be no longer than 8 minutes and should be placed on the CD, DVD, USB drive, or similar. These videos may also be considered for inclusion in a running video loop in the STEM area at the fair after review by judge, chair(s) and extension staff. Adult guardians must complete Video Release included with the exhibit form. If the release is not completed the video will not be included in the video loop on display in the STEM area of the fair.

5. Exhibitor’s name, county or district, age, and years(s) in project must be tagged or labeled in a prominent location on the exhibit.

6. Unmanned Aerial System that include or depict weaponry of any kind will be disqualified.

7. If modifications are made to the exhibit a page should be attached noting those modifications.

8. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor’s exhibit, at the judges’ discretion, will receive a participation ribbon.

Intermediate Division, Exhibitors 9 through 13 years old
Unmanned Aerial System designed and constructed by exhibitor that is operated by a remote controlled device. The UAS must not be a mere modification of an existing kit or plan. You may not exhibit a UAS that is purchased off the shelf in this class.
Class 1370J by 7-13 year old member

Practical application of an Unmanned Aerial system constructed from a commercial (purchased) kit. This includes the UAS, plus one or more of the following: video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, and bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.
Class 1371J by 7-13 year old member

Senior Division, Exhibitors 14 years and older
Unmanned Aerial System designed and constructed by exhibitor that is operated by a remote controlled device. The UAS must not be a mere modification of an existing kit or plan. You may not exhibit a UAS that is purchased off the shelf in this class.
Class 1372S by 14 and older member

Practical application of an Unmanned Aerial system constructed from a commercial (purchased) kit. This includes the UAS, plus one or more of the following: video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, and bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.
Class 1373S by 14 and older member

STEM EDUCATIONAL EXHIBITS- Posters, Notebooks and Display Boards
Purpose: To allow 4-Hers to explore STEM outside the bounds of traditional projects for rockets, robotics, astronomy, computers and unmanned aerial system. All posters, notebooks and display boards are listed in this section and have been removed from the individual sections to save space.

1. The General Exhibit rules for ALL categories apply.
2. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
3. Exhibits in posters, notebooks and display boards must contain substantial supporting educational materials.
4. Educational display boards, posters and notebooks should be creative and showcase details about the knowledge learned in the project during the current 4-H year. Value is placed on youth who can demonstrate how their skills have increased while completing the project. Each exhibit will be judged on uniqueness, creativity, neatness, accuracy of material, knowledge gained, and content. An exhibit judging score sheet available at www.STEM4KS.com. For example, a rocket that may have crashed and/or is highly damaged may be made into an educational display or poster that tells a great story with many lessons learned.
5. Follow copyright laws, citing all sources of information in a standard notation Sources of information must be cited on the front of your exhibit, including all posters and educational display boards.
6. Educational displays are not to exceed a standard commercial 3’x 4’ tri-fold display board. No card table exhibits will be allowed. Care should be taken to use durable materials that will withstand Kansas State Fair conditions.
7. “Construction Kits” that are part of Educational displays must be contained in cases (tackle boxes, sealable containers, etc.) that may not be larger than 1’ X 2’ X 2’ and must have a latch which securely keeps all components contained in the “Construction Kits”. Other components are to adhere to appropriate dimensions as stated elsewhere.
8. Educational Project notebooks must be organized in a 3-ring binder.
9. Any three dimensional display exhibits may not be thicker than 1”.
10. Engines and igniters for rockets ARE NOT permitted with the exhibit and constitute an immediate disqualification. This is for safety reasons and includes both spent and live engines.
11. Exhibitor’s name, county or district, age, and year(s) in project must be tagged or labeled in a prominent location on the, notebook, and/or “Construction Kit,”. For education displays and/or posters the exhibitor’s name, county, or district, age, and year(s) in project must be tagged or labeled on the back of the exhibit. Exhibit cards are not sufficient as they may be removed or repositioned for display.

12. Exhibits should possess the following qualities (in no particular order): a. A Central theme b. What you want others to learn c. Be designed and constructed in a manner befitting the exhibit d. Be something you are interested in e. Be related to Astronomy, Computer System, Robotics, Rocketry, or Unmanned Aerial System f. As well as those characteristics described above.

13. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor’s exhibit, at the judge’s discretion, will receive a participation ribbon

Astronomy Educational display, notebook, poster
Class 1382J by 7-12 year old member
Class 1382S by 13 and older member

Computer display, notebook, poster
Class 1384J by 7-12 yr old member
Class 1384S by 13 and older member

Rocketry display, notebook, poster
Class 1385J by 7-12 year old member
Class 1385S by 13 and older member

Robotics display, notebook, poster
Class 1386J by 7-12 year old member
Class 1386S by age 13 and older

Unmanned Aerial System display, notebook, poster
Class 1387J by 7-12 year old member
Class 1387S by 13 and older member

Department 26 Visual Arts
Enrollment: 5 jr, 4 sr (2 awards

4-H enrollment card projects:
Visual Arts: general arts & crafts, ceramics, leather craft
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit eight (8) entries per class completed in current project year in each area enrolled.
4. See page 9: poster, display & notebook criteria.
5. Exhibits must be made during current project year.
6. Exhibit may be an article, notebook, poster, or display exhibit.
7. All exhibits which need to be hung MUST have the appropriate saw-tooth hanger, rod, wire, or other mechanism attached in order to be properly displayed, entries not in compliance will be lowered 1 ribbon placing (no string or tape).
8. Special consideration given to items which are of original design, attach note explaining original design.
9. Exhibitor should attach an index card no larger than 4”x6” with entry card to provide the judge with any information on what parts of the exhibit they made, processes used, and other information which the exhibitor thinks would be helpful for the judge, indicate any items that were made from a kit.
10. Grand champion senior division entries will be the county’s state fair arts and crafts entries. Alternates may be sr. reserve champion entries then jr division grand champions. State fair entries are entered at exhibitor’s own risk.

11. No plants or plant materials needing watering can be entered as an art display or item.

NEW Kansas State Fair rules for Visual Arts: (Visual Arts will be judged.)

1. Each county may submit one entry from each of the five categories (Fine Arts, Clay and Ceramics, Leather and Jewelry, Three-Dimensional, and General Crafts).

2. Articles exhibited must be an original design created by the exhibitor. See copyright guidelines in the general rules section of the Fair Book (page 9).

3. All visual arts exhibits are evaluated using a visual arts rubric, which takes into account correct use of design elements, craftsmanship, and creativity.

4. Large art items will not be accepted. Exhibits must be of manageable size and be easily transported and displayed by one person.

5. Multi-piece items should be marked accordingly.

FINE ARTS: Oil, chalk, charcoal, dyes, pastels, pencil, ink, acrylic, or watercolor on canvas, canvas board, paper, wood, metal, or textiles, framed as a picture, prepared for hanging. Stretched canvas art on a wooden frame is considered prepared for hanging provided that frame has a hanger.

Class 1390J made by 7-12 year old member
Class 1390S made by 13 & older member

CLAY and CERAMICS: Any original item made of clay; may be fired or unfired, hand formed, or thrown on a wheel. Self-hardening, fire/oven-cured, and/or cornstarch clays are acceptable. Projects must begin with green ware, not a piece already cleaned. Items can include, but are not limited to, clay statues, bowls, etc.

Class 1391J made by 7-12 year old member
Class 1391S made by 13 & older member

LEATHER and JEWELRY: Any leather stamping, carving, tooling, lacing, or stitching piece or any jewelry made from any medium are acceptable exhibits.

Class 1392J made by 7-12 year old member
Class 1392S made by 13 & older member

THREE-DIMENSIONAL: The piece must be observable on at least three sides and should be either free-standing or prepared to be hung. Craft and pre-formed or assembled projects are not acceptable.

Class 1393J made by 7-12 year old member
Class 1393S made by 13 & older member

GENERAL CRAFTS: This category incorporates miscellaneous pieces that do not correspond to the four, above-mentioned categories.

Class 1394J made by 7-12 yr old member
Class 1394S made by 13 and older member

Department 27   Wildlife (Sports Fishing)
Enrollment: 1 sr
(1) awards
1. All general regulations apply.
2. 2-sectional entry card is required for each exhibit.
3. Member enrolled in this project may exhibit three (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. Exhibitor must comply with state and federal laws, it is illegal to possess threatened or endangered wildlife, or the feathers, nests, or eggs of non-game birds. Game birds and game animals taken legally during an open season may be used. The use of live wild animals in educational exhibits is prohibited.

Notebook (Contents pertain to some phase, results, story or information about the wildlife project).

Educational Poster (must be related to something learned in the wildlife project) (posterboard or foamboard no larger than 22" x 28").

Educational Display (must be directly related to the wildlife project).

Wildlife poster, notebook, display
Class 1400J by 7-12 yr old member
Class 1400S by 13 and older member

Taxidermy/Tanning exhibit (should include an attachment that shows the work in progress through photos with captions, or a detailed journaling of the process).

Class 1401J by 7-12 yr old member
Class 1401S by 13 and older member

Wildlife show and tell
Class 1402J by 7-12 yr old member
Class 1402S by 13 and older member

Department 28   Woodworking
Enrollment: 2 jr
(1) awards
1. All general regulations apply.
2. A 2-section card is required for each exhibit.
3. Members enrolled in project may enter (3) entries per class completed in current 4-H yr.
4. See page 9: poster, display & notebook criteria.
5. The plan from which it was constructed must be with the article exhibited. The plan may be a photocopy, the actual pattern, or a scale drawing. It must be complete and accurate to the extent that a duplicate article could be built using the plan as a guide. Please note: a set of step by step instructions is not a plan.
6. Projects with missing or insufficient plans will be lowered one ribbon placing (i.e. a blue ribbon exhibit will receive a red ribbon).
7. The use of materials other than wood should be kept to a minimum.
8. Projects that have unsecured glass, i.e., glass shelves, glass top of a coffee table, etc., should not be brought to the fair. Glass that is secured in the project, i.e., glass front of a gun case or cabinet, etc., is permissible since it cannot be easily removed.

9. The entry card, plans and all other paperwork should be secured to the project in some manner. Tape is usually not adequate to accomplish this. It is recommended to use a zip top plastic bag with a hole punched through it and using string to tie this to the exhibit.

10. Refinished/repaired furniture should be exhibited in a Home Environment class.

11. Projects made from pre-cut kits are not allowed.

12. In judging woodwork articles, consideration will be given to: Workmanship, including accuracy to the plan; Design; Choice of wood; Suitability and quality of finish; and Usefulness.

13. Firearms and weapons are not to be entered or exhibited at the fair.

**Article for Farm or Shop Use**
Class 1410J by 7-12 yr old member
Class 1410S by 13 and older member

**Furniture for Household or Lawn Use**
Class 1411J by 7-12 yr old member
Class 1411S by 13 and older member

**Other Woodwork Articles not included in above classes including any article made from a kit.** (examples: bird house, bird feeder, household equipment such as: knife rack, bread board, door stop, etc)  
Class 1412J by 7-12 yr old member  
Class 1412S by 13 and older member

**Woodworking poster, notebook, display**  
Class 1413J by 7-12 yr old member  
Class 1413S by 13 and older member

**Department 29  FFA  Ag Mechanics**
(1) awards  
1. All general regulations apply.  
2. A 2-section card is required for each exhibit.  
3. Members enrolled in project may enter (3) entries per Class.  
4. All entries must have been constructed or repaired within the past two years in the high school AG department by an agricultural education student and a bona fide Kansas FFA member and are younger than 19 by January 1st of the current year to be eligible to exhibit.  
5. If one project is not essential to the operation of the others, then it will be considered and entered as two projects.  
6. Exhibitor will furnish for each project: a project description, bill of materials including all purchased items, list of skills and safety features performed, hours worked on project. (Pictures are encouraged.)

**DIVISION II  4-H/FFA**

**LIVESTOCK**

**NOTE:** HERDSMANSHIP AWARD  
will be given to one club per day, and one overall club winner for the fair. Daily scores will be given to each pen for cleanliness, ribbons displayed, tack in order, and overall appearance. Traveling plaque sponsored by the fair board will be awarded at Awards Program, Sun., July 11.

**PREMIUM SALE REQUIREMENTS**
Have a checked off and signed form turned into Fair Office or Extension Office before Noon on Sunday of the fair.

**Department 30  BEEF**

NOTE: all education exhibits judged 8 a.m., Friday, July 9, all in Quonset except stall decorations  
**Enrollment:** bucket: 6 jr; market: 3 jr, 5 sr; breeding: 4 jr, 5 sr  
(4) awards: overall bucket calf, overall breeding, overall market steer, overall showmanship  
**Belt Buckle:** supreme market steer  
1. Read general regulations and guidelines, pgs. 6-9.  
2. Approved showmanship apparel, see pg. 8.  
3. Market beef classes determined by weight on entry day.  
4. Animals, except breeding animals, will be weighed and tagged at the beginning of the project.  
5. All breeding animals are to be identified by a numbered ear tag when selected for the project.  
6. Superintendent discretion applies if necessary.  

**Females:**  
a. Beef breeding animals may be owned or borrowed by the exhibitor by June 1 of the current year. If borrowed, exhibitor must work with and care for the animal.  
b. Superintendent of this department may grant exceptions
to these rules in case of unusual conditions.
c. Breeding registered heifer classes eligible for state fair. All heifers must have original registration papers in the sole name(s) of exhibitor, dated by July 1 of current year; transfer papers not accepted in registered classes.
d. Heifers that are registered in a farm name or whose papers include the name of adults are not eligible to show at state fair, however, heifers may be co-owned and co-registered by two or more members in same family.
e. Registered heifers must be identified with permanent tattoo corresponding to original registration papers and must be presented with heifer at check in time.

Breeding

a. **heifer calves** (dropped after September 1 of previous year)
b. **heifer summer yearling and junior yearlings** (dropped between January 1 and August 31 of previous year)
c. **heifer senior yearlings** (dropped between 9-1-19 & 12-31-19)
d. **bred heifer**
e. **cow** (dropped before August 31, 2019)
f. **cow and calf**

All beef breeding females will be shown in separate classes according to breed and age; indicate on entry card breed (Hereford/Angus/Crossbred/etc.) and weight.

Classes 2000

**Bucket Calf**

1. Heifers and steers are eligible for exhibit.
2. Animals NOT eligible for exhibit if horns are present.
3. Bucket calf must be born between Jan. 1 - May 1, selected before 30 days old and fed by bucket or bottle until weaned.
4. Members can exhibit one (1) bucket calf.
5. Judging will be based on what the youth has learned and accomplished; no consideration will be given to animal conformation or type.
6. Conference judging: 50% calf condition, 50% personal interview.
7. A champion and reserve champion will be selected in each class on the basis of total points. Rosette ribbons will be awarded to the champion and reserve champion; ties will be broken on the grooming score.
8. **Bucket calves are not eligible for jr. showmanship.**
9. All grooming should be done by member:
   — calves should be clean.
   — professional clipping is discouraged.

**Class 2011**  bucket calf - 7 to 9 year old youth
**Class 2012**  bucket calf - 10 to 12 year old youth

**Market Heifers**
Superintendent will place animals into weight classes as animals are weighed.

**Class 2014**  market heifer
A: lt wt  B: med wt  C: heavy wt

**Market Steers**
Superintendent will place animals into weight classes as animals are weighed.

**Class 2015**  market steers  A: lt wt  B: med wt  C: heavy wt

**Stocker - Feeder**
1. Stocker-feeder animals are grown for meat production.
2. Animals are fed a growing ration.

**Class 2020**  stocker - feeder 350-600 pounds
**Class 2021**  stocker - feeder 601-900 pounds

**Beef Carcass Contest**
Ribbon placing based on carcass information (live weight, carcass weight, dress %, quality grade, ribeye area, yield grade) collected at meat processing plant.

**Class 2022**  beef carcass contest

**Beef Daily Gain**
Ribbon placing determined for weight gained by animal based on this scale: 3+ pounds = purple, 2.5+ = blue, 2.0 = red, under 2 = white.

**Class 2023**  beef daily gain - market steer
2.5+ pounds = purple, 2+ = blue, 1.5+ = red, under 1.5 = white

**Class 2024**  beef daily gain - market heifer

**Beef Showmanship**
1. See general showmanship rules on page 8.
2. Electric shear and power blower are permitted to trim or fit. Cattle adhesives, hairspray, shampoo, and hair polish are permitted. Painting or hair additions are not permitted.

**Class 2026**  beef showmanship jr
**Class 2027**  beef showmanship sr

**Supreme Market Beef**
Selection is based on a combination of live, daily gain, and carcass placing. To be eligible for this award, animals must receive a blue ribbon in live placing, a blue ribbon in daily gain, and rank in the top ten carcasses (grade choice or higher).

**33% Live Placing**  **33% Daily Gain**  **33% Carcass**
33grand champion  33 purple 3.0 #  first  33
32reserve gr champ  31 blue 2.9  second  31
31champion of class  29 blue 2.8  third  29
29reserve of class  27 blue 2.7  fourth  27
27-3rd  in class  25 blue 2.6  fifth  25
25-4th  in class  23 blue 2.5  sixth  23
23-5th  in class  21 blue 2.4  seventh  21
21-6th  in class  19 blue 2.3  eighth  19
19-7th  in class  17 blue 2.2  ninth  17
tenth  15

**Class 2028 - Supreme Market Beef**
Beef Education
All members are urged to exhibit an educational entry that promotes beef industry - a poster (see page 10: poster criteria), 1-page report (include photo plus tell about project and what you have learned about beef), display (tabletop), or stall decoration (enhance animal stall/tack area). Ribbon to each entry.

(judged on Friday 8 a.m. in Quonset)
Class 2029 beef poster
Class 2030 beef report
Class 2031 beef display
Class 2032 beef stall decoration

Department 31 Dairy Cattle
NOTE: all education exhibits judged 8 a.m., Friday, July 9, all in Quonset except stall decorations
Enrollment: 0
(2) awards: overall dairy, overall showmanship
1. Read general regulations & guidelines on pgs 6-9.
2. Approved showmanship apparel, see pg. 8.
3. Dairy cattle will be exhibited in the cattle barn.
4. All dairy animals will be shown in separate classes according to breed and age; on entry card indicate breed: Brown Swiss, Holstein, Guernsey, Jersey, etc., or other.
5. Heifers less than two years old will compete for junior champion and reserve junior champion.
6. Top two animals in each class will compete for champion and reserve champion dairy animal.
7. Superintendent discretion applies if necessary.

Classes 2035-2040 plus one of these designated letters:
A. heifer calves, born between Aug. 1, 2020-July 15, 2021
B. yearling heifers, born between Aug. 1, 2019-July 31, 2020
C. 2 year old, born between Aug. 1, 2018-July 31, 2019
D. 3 year old, born between Aug. 1, 2017-July 31, 2018
E. aged cows, born before July 31, 2017

Dairy Showmanship
1. See general showmanship rules on page 8.
Class 2041 dairy showmanship jr
Class 2042 dairy showmanship sr

Dairy Education
All members are urged to exhibit an educational entry that promotes dairy industry - a poster (see page 10: poster criteria), 1-page report (include photo plus tell about project and what you have learned about dairy), display (tabletop), or stall decoration (enhance animal stall/tack area). Ribbon to each entry.

(judged on Friday 8 a.m. in Quonset)
Class 2043 dairy poster
Class 2044 dairy report
Class 2045 dairy display
Class 2046 dairy stall decoration

Department 32 Goats
NOTE: all education exhibits judged 8 a.m., Friday, July 9, all in Quonset except stall decorations
Enrollment: dairy: 0; meat: 5 jr, 2 sr
(3) awards: overall market, overall showmanship, overall breeding
1. Read general regulations & guidelines on pgs 6-9.
2. Approved showmanship apparel, see pg. 8.
3. Goats will be exhibited in the sheep/goat barn.
4. Breeding females must be owned by 6/1/20
5. All goats will be shown in separate classes according to breed & age; market goats cannot be shown in breeding classes.
6. Market goats must be wethers or does that have their milk teeth in place.
7. For premium sale, must gain a minimum of 10 pounds by entry at county fair; minimum sale weight is 55#.
8. All market goats must be “slick shorn” with an equal amount of wool above the knee and hock.
9. Superintendent discretion applies if necessary.
Class 2047 breeding doe
Class 2048 breeding billy
Class 2049 nanny with kids

designate letter below with class number
A. does born after January 1, 2021
B. does born between July 1 2020- December 31, 2020
C. does born between July 1, 2019 - June 30, 2020
D. does born before July 1 2019
E. billies born August 1, 2019- January 31, 2020
F. billies born February 1, 2020-August 1, 2020

Class 2050 dairy goat
Class 2051 meat goat

Class 2052 other (Catch-a-goat)
A. market goat born after February 1, 2021
B. market goat born before February 1, 2021

Goat Showmanship
1. See general showmanship rules on page 8.
Class 2053 goat showmanship jr.
Class 2054 goat showmanship sr.
Class 2055 goat carcass

Goat Daily Gain
Ribbon placing determined for weight gained by animal based on this scale: 4 pts 1# = purple
3 pts .99-.75# = blue 2 pts .74-.5# = red
1 pt under .5# = white

Class 2056 goat daily gain - market goat

Goat Education
All members are urged to exhibit an educational entry that promotes goat industry - a poster (see page 10: poster criteria), 1-page report (include photo plus tell about project and what you have learned about goats), display (tabletop), or stall decoration (enhance animal stall/tack area). Ribbon to each entry.

(judged on Friday 8 a.m. in Quonset)
Class 2043 dairy poster
Class 2044 dairy report
Class 2045 dairy display
Class 2046 dairy stall decoration

PAGE 44
Department 33 HORSES

NOTE: all education exhibits judged 8 a.m., Friday, July 9, all in Quonset except stall decorations

Enrollment: 6 jr, 1 sr

(3) awards: halter gelding, halter mare, overall showmanship

Belt Buckle: high points champion

1. Read general regulations & guidelines on pgs 6-9.
2. Approved showmanship apparel, see pg. 8.
4. If more than 50 horses are pre-entered, a maximum of 2 horses per exhibitor will be stalled; additional horses may be shown.
5. The standard age classification of horses: i.e. the age of a foal is determined as of January 1, in the year in which it is born. For example, a weanling is a foal of 2020 irrespective of which month it is born; only mares and geldings may be shown at halter and under saddle.
6. Indicate horse breed, age and sex on entry card.
7. Tack: check Kansas 4-H Horse Show Rule Book, in case of inclement weather, the superintendents will announce any changes that will be permitted in dress.
8. NO stud horses will be allowed on the premises.
9. Superintendent discretion applies if necessary.

Halter Classes Scoring Procedure:

50% conformation
30% performance & way of going
20% manner, tractability, general condition on entry card indicate animal age: A, B, C, D

A. weanling B. yearling C. 2-3 year old D. 4+ years

Filly or Mare

Class 2100 A, B, C, D
Class 2101 champion filly/mare, must earn blue in 4100

Gelding

Class 2102 - A, B, C, D
Class 2103 champion gelding, must earn blue in 4102

Performance Classes

1. Instructions for classes are in 4-H horse handbook.
2. Judge will choose reining pattern from Handbook and announce at beginning of Performance Classes.
3. Point system used for horse department:
   5 points - purple, 4 points - 1st blue, 3 points blue, 2 points - red, one point - white, participation – 0.
4. Each member may enter a class only once. Although single horse may be entered more than once by members of the same family, provided it is properly identified by both 4-H’ers.
5. Must be more than one participant in a performance event for class to count toward overall performance pt.
6. High - point winner will receive grand champion performance horse plaque, if available, rosette if not. Second place receives a reserve grand champion rosette.
7. Costume Class may be entered by any youth enrolled in project. Any costume is welcome. The entry can be led or ridden into the arena, and any props that enhance the costume may be used.

Class 2104 leadline (5 -7 yr. olds)
   (adult leads youth into arena)
Class 2105 walk/trot
Class 2106 western pleasure - juniors
Class 2107 western pleasure – seniors
Class 2108 two year old snaffle bit western pleasure
Class 2109 western horsemanship- juniors
Class 2110 western horsemanship - seniors
Class 2111 trail
Class 2112 reining
Class 2113 pole bending
Class 2114 barrels
Class 2115 key hole
Class 2116 costume class
Class 2117 mules, halter class

Horse Showmanship

1. See general showmanship rules on page 8.
Class 2119 horse showmanship jr
Class 2120 horse showmanship sr

Horse Education

All members are urged to exhibit an educational entry that promotes the horse industry - a poster (see page 10: poster criteria), 1-page report (include photo plus tell about project and what you have learned about horses), display (tabletop), or stall decoration (enhance animal stall/tack area). Ribbon to each entry.

(judged on Friday 8 a.m. in Quonset)

Class 2121 horse poster
Class 2122 horse report
Class 2123 horse display
Class 2124 horse stall decoration
Class 2125 horse speech

Department 34 OTHER ANIMALS

Identify species - superintendents: no enrollees

1. Read general regulations & guidelines on pgs 6-9.
2. Approved showmanship apparel, see pg. 8.
3. Different animals will be shown in different classes.
4. State breed, kind of animal on two-sectional card.

Class 2140 llama obstacle course (if enough animals)
Class 2141 other animal on halter
Department 35  Poultry

NOTE: all education exhibits judged 8 a.m., Friday, July 9, all in Quonset except stall decorations

Enrollment: 1 jr, 1 sr

(2) awards: champion poultry, overall showmanship
1. Read general regulations & guidelines on pgs 6-9.
2. Approved showmanship apparel, see pg. 8.
3. Member enrolled in this project may exhibit three (3) entries per class.
4. Judging of classes 4150-4153 & 4158-4161 will be based on exhibition qualities as described in "The American Standard of Perfection," judging of class 4154-4157 will be done on the basis of production quality only.
5. Poultry will be banded to insure proper identification (bands available at the extension office).
6. Class 4155 birds qualify for premium sale, must weigh 3lbs. Indicate breed and identification number on entry card; distinguish between breeds, list class number, then breed name.
7. Eligible for state fair if awarded blue ribbon or higher.
8. Young bird is less than 1 year old; old bird is over 1 year old.
9. Superintendent discretion applies if necessary.

Class 2150 Standard Breeds, Large Fowl
Class 2151 Standard Breeds, Large Fowl
Class 2152 Standard Breeds, Bantams, Young Bird
Class 2153 Standard Breeds, Bantams, Old Bird

Class 2154 Production Pullets, (pen of 3) Standard-bred, Crossbred or Strain-cross pullets to be judged on egg production qualities
Class 2155 Production Hens, (pen of 3) Standard-bred, Crossbred or Strain-cross hens to be judged on egg production qualities

Class 2156 Dual Purpose Pullets, (pen of 3) such as: Rhode Island Reds, New Hampshire, Plymouth Rocks, etc.
Class 2157 Dual Purpose Hens, (pen of 3) such as: Rhode Island Reds, New Hampshire, Plymouth Rocks, etc.

Class 2158 Turkeys, All Breeds
Class 2159 Ducks, Call or Bantam
Class 2160 Ducks
Class 2161 Geese
Class 2162 Trio, (pen of 3) any breed, any sex

Market Class Poultry
Class 2163 Meat-type Chickens, (pen of 3) same sex for meat production qualities, minimum weight 3½ lbs., no maximum weight, eligible for premium sale

County Class, not eligible for state fair:
Class 2164 Other Fowl

Poultry Showmanship
1. See general showmanship rules on page 8.
Class 2165 Poultry Showmanship Jr
Class 2166 Poultry Showmanship Sr

Poultry Education
All members are urged to exhibit an educational entry that promotes poultry industry - a poster (see page 10: poster criteria), 1-page report (include photo plus tell about project and what you have learned about poultry), display (tabletop), or stall decoration (enhance animal stall/tack area). Ribbon to each entry.
(judged on Friday 8 a.m. in Quonset)
Class 2167 Poultry Poster
Class 2168 Poultry Report
Class 2169 Poultry Display
Class 2170 Poultry Cage Decoration

Department 36  Rabbits

NOTE: all education exhibits judged 8 a.m., Friday, July 9, all in Quonset except stall decorations

Enrollment: 3 jr, 3 sr

(2) awards: champion rabbit, overall showmanship
1. Read general regulations & guidelines on pgs 6-9.
2. Approved showmanship apparel, see pg. 8.
3. 4-H/FFA members must be enrolled in project.
4. Left ear of rabbit MUST be legibly permanently tattooed and have Rabbit ID paper turned into extension office by May 1.
5. Breeding classes are shown by breeds, designate class subdivision with class number and proper letter on the entry card.
6. Superintendent discretion applies if necessary.

A. Junior Doe - under six months of age
B. 6-8 Month Doe
C. Senior Doe - eight months of age or over
D. Junior Buck - under six months of age
E. 6-8 Month Buck
F. Senior Buck - eight months of age or over

Market Class
Class 2180 Meat Class, (three rabbits), maximum weight 5 lbs. each, eligible for premium sale if average 3½ lbs

Breeding Rabbits
Class 2181 Angora
Class 2182 Standard Rex
Class 2183 French Lop
Class 2184 Satin
Class 2185 Chinchilla
Class 2186 Dutch
Class 2187 California
Class 2188 New Zealand White
Class 2189 Holland Lop
Class 2190 Mini Rex
Class 2191 Flemish Giant
Class 2192 Other (list breed)
Class 2193 Commercial (crossbred)
Rabbit Showmanship
1. See general showmanship rules on page 8.
Class 2195 rabbit showmanship jr
Class 2196 rabbit showmanship sr

Rabbit Education
All members are urged to exhibit an educational entry that promotes rabbit industry - a poster (see page 10: poster criteria), 1-page report (include photo plus tell about project and what you have learned about rabbits), display (tabletop), or stall decoration (enhance animal stall/tack area). Ribbon to each entry.

(judged on Friday 8 a.m. in Quonset)
Class 2197 rabbit poster
Class 2198 rabbit report
Class 2199 rabbit display
Class 2200 rabbit cage decoration

Department 37 SHEEP
NOTE: all education exhibits judged 8 a.m., Friday, July 9, all in Quonset except stall decorations
Enrollment: market: 4 jr, 1 sr  breeding: 1 jr, 1 sr
(2) awards: overall market, overall showmanship
1. Read general regulations & guidelines on pgs 6-9.
2. Approved showmanship apparel, see pg. 8.
3. Exhibitor must own breeding animal by May 1 of current year.
4. Market lambs will be divided into classes when entered. X Light Weight animals (under 100 #) will be in the prospect class.
5. Members with catch-a-lambs will compete in catch-a-lamb, market lamb class, daily gain, and showmanship.
6. Superintendent discretion applies if necessary.

Pen of Three Market Lambs
1. Lambs will be weighed and identified, daily gain will be figured, but not eligible for regular daily gain contest.
2. Market lambs exhibited in clean short fleece, but not fitted and will be exhibited in pens.
3. Animals exhibited in pen of three are separate animals from animals exhibited in individual competition.

Breed Ewes
All breeding ewes will be shown in separate classes according to breed and age. Indicate on entry card if animal is a purebred (list breed) or Crossbred. All commercial ewes (non-registered) must have an official Kansas 4-H/FFA ear tag by June 1.

Classes 2214-2219 (followed by designated letter below)
A. ewe lamb (must be born on or after September 1, 2020)
B. yearling ewe (must be born on or between 9/1/19 & 8/31/20)
C. ewe with lambs (lambs must not be weaned)

Breeding Rams
All rams must be purebred; all rams will be shown in separate classes according to breed and age. Indicate on entry card the breed and age (birth date to be actual).

Classes 2220-2221 (followed by designated letter below)
A. Rams born August 1, 2019-January 31, 2020
B. Ram lambs born February 1, 2020 - August 1, 2020
Sheep Showmanship
1. See general showmanship rules on page 8.
Class 2223 sheep showmanship jr
Class 2224 sheep showmanship sr

Sheep Daily Gain
Ribbon placing determined for weight gained by animal based on this scale: 4 points 1+ # =purple, 3 points .99-.75 = blue, 2 points .74-.5 = red, 1 point under .5 = white.

Class 2225 sheep daily gain

Sheep Education
All members are urged to exhibit an educational entry that promotes sheep industry - a poster (see page 10: poster criteria), 1-page report (include photo plus tell about project and what you have learned about sheep), display (tabletop), or stall decoration (enhance animal stall / tack area). Ribbon to each entry.

(judged on Friday 8 a.m. in Quonset)
Class 2226 sheep poster
Class 2227 sheep report
Class 2228 sheep display
Class 2229 sheep stall decoration
Class 2230 Sheep Carcass

Department 38 SWINE
NOTE: all education exhibits judged 8 a.m., Friday, July 9, all in Quonset except stall decorations
Enrollment: market: 9 jr, 6 sr  breeding: 2 jr, 1 sr
(3) awards: overall breeding, overall market, overall showmanship
Belt Buckle: supreme market hog
1. Read general regulations & guidelines on pgs 6-9.
2. Approved showmanship apparel, see pg. 8.
3. Exhibitors must own breeding animal by June 1 of the current yr. or borrowed if working and caring for animal.
4. Maximum beginning weight (on weigh date) for mkt pigs is 120 lbs. (recommended weights are 70-100 lbs).
5. Market hogs will be divided into four weight classes. X Light Weight animals (under 220 #) will be in the prospect class.
6. Breeding classes divided according to breed.
7. Weigh-in time for market hogs is 8-10 a.m., July 9. 
   Exhibitors should be present for weigh-in, or if unable, a 
   family member.
8. Members with catch-a-pig will compete in both catch-a- 
   pig and market pig class.
9. Superintendent discretion applies if necessary.

**Market Pig** (as animals entered, superintendent places in 
wt class)
A. X light weight  B. Light weight  C. Medium weight 
D. Heavy weight  E. X heavy weight 
Class 2231 market pig (followed by designated letter) 
Class 2232 catch-a-pig 
Class 2233 prospect

Breeding: classes divided into breeds/gilt’s month of birth
Class 2234-2237 recommended weight 180+ lbs.

Sow and Litter 
Class 2238 aged sow 
Class 2239 sow and litter (less than 8 weeks of age). 
Class 2240 pen of four from one litter (weaned)

**Supreme Market Hog Guidelines**
1. Selection based on combination of live placing, daily 
   gain, and carcass placing.
2. To be eligible for this award, animals must receive blue 
   ribbons in both live placing and daily gain, and rank in 
   the top ten carcasses.
3. Meet carcass requirements as explained in extension 
   mailing.
4. In case of a tie, the highest daily gain will be used to 
   break the tie.

**Point system**
20% Live Placing  40% daily gain  40% carcass
20 grand champion  40 2.0 #  40 first
19 reserve champion  39 1.9 #  38 second
18 champion of class  38 1.89 #  36 third
17 reserve of class  37 1.87 #  34 fourth
16 blue placing  36 1.85 #  32 fifth
35 1.83 #  30 sixth
34 1.81 #  28 seventh
33 1.79 #  26 eighth
32 1.77 #  24 ninth
31 1.75 #  22 tenth

Class 2241 Supreme Market Hog

**Swine Carcass Contest**
Ribon placing based on carcass information collected at 
meat processing plant; contest criteria - animal must: weigh 
220 # & up, have 4 3/4 “ or larger loin eye, & 1 ½ “ or less 
back fat.
Class 2242 swine carcass contest

**Swine Daily Gain**  (None this year)
Ribbon placing determined for weight gained by animal 
based on this scale: 4 pts. 2+# = purple, 3 pts. 1.99-1.75 # = 
blue, 2 pts. 1.74-1.5 # = red, 1 pt. under 1.5 # = white. 
Class 2243 swine daily gain

**Swine Showmanship**
1. See general showmanship rules on page 8. 
Class 2244 swine showmanship jr 
Class 2245 swine showmanship sr

**Swine Education**
All members are urged to exhibit an educational entry that 
promotes swine industry - a poster (see page 10: poster 
criteria), 1-page report (include photo plus tell about project 
and what you have learned about swine), display (tabletop), 
or stall decoration (enhance animal stall/tack area). Ribbon 
to each entry.

**(judged on Friday 8 a.m. in Quonset)**
Class 2246 swine poster 
Class 2247 swine report 
Class 2248 swine display 
Class 2249 swine stall decoration

**Department 39  Round Robin**
Belt Buckle: round robin champion
1. Two (2) showmanship competitors (only Grand & 
   Reserve Champion) for each species will compete in 
   final showmanship competition.
2. The selected members will then compete in the Round 
   Robin Contest on Saturday, July 10 in the covered arena.
3. Youth must show the animal as designated by judge.
4. In case a youth is selected to show in more than one 
   class, youth must decide and inform superintendents 
   which species they will show (may enter only one 
   species).
5. Judges will select a grand and reserve grand champion 
   round robin showmanship champion.
6. No Bucket Calves allowed. 
Class 2250 round robin

**Department 40  Livestock Judging**
Contest: Sun., July 11 – 12:30 p.m., covered arena 
Ribbon point guideline: 90% of points possible - purple, 
80% - blue, 70% - red, 60% and under - white 
Class 2257 jr. livestock judging contest 
Class 2258 sr. livestock judging contest

**DIVISION III    -  SCOUTS**
The following guidelines will apply to all exhibits 
entered by any girl or boy scout.
1. Any registered Scout in Jewell & surrounding counties 
   may enter exhibits that have been made within last year, 
   except collection which may be entered more than 
   once with new additions labeled and dated.
2. Classification based on 2020-21 school grade 
3. Exhibits will be displayed in the Quonset.
4. Premiums: best of show $2.50, blue $2, red $1.50, white $1.
5. Scout may exhibit three (3) entries per class.
6. All food products must be exhibited on paper plates or covered cardboard of suitable size; use plastic bags, no plastic wrap. Recipe must be included.
7. Any exhibit that is intended to be hung must have a hanging device.
8. Pictures and photographs MUST be mounted and ready to hang.

### Department 41 BOY SCOUTS

**Class numbers will be same for division, designate age by adding a subdivision letter:**

**BOYS**: T - Tiger Cub  C - Cub  W - Webelos

- Class 3000 ink, pencil, crayon, chalk, or misc. art
- Class 3001 legos
- Class 3002 nature activity
- Class 3003 holiday decoration
- Class 3004 collection (stamps, shell, coin, etc.)
- Class 3005 collection (nature, rock, mineral, soil, bugs)
- Class 3006 safety, Emergency Preparedness
- Class 3007 kit work
- Class 3008 bird feeder or bird house
- Class 3009 woodcraft
- Class 3010 plaster casting
- Class 3011 achievement plaques
- Class 3012 ceramics
- Class 3013 games or toys
- Class 3014 puppet
- Class 3015 plastic craft
- Class 3016 leather work
- Class 3017 weaving, braiding, macrame', basketry
- Class 3018 model planes, cars and trucks
- Class 3019 model space age, ships
- Class 3020 stitchery
- Class 3021 masks
- Class 3022 outdoor utensils
- Class 3023 metal work
- Class 3024 bead craft
- Class 3025 Indian lore, accessories
- Class 3026 paper-mache
- Class 3027 candles
- Class 3028 wall decorations
- Class 3029 individual scrapbook
- Class 3030 pinewood derby cars
- Class 3031 genius art
- Class 3032 blue and gold decorations
- Class 3033 Christmas decorations
- Class 3034 garden (4 varieties)
- Class 3035 cookies - 6 samples
- Class 3036 bread (1 loaf) (quick or yeast)
- Class 3037 candy - 6 samples
- Class 3038 canned items (in standardized canning jars)
- Class 3039 cakes (whole product, include recipe)
- Class 3040 cupcakes - 6 samples
- Class 3041 dried food
- Class 3042 jams & jellies (include recipe)

### Department 42 GIRL SCOUTS

**Class numbers will be same for division, designate age by adding a subdivision letter:**

**GIRLS**: D - Daisy  B - Brownie  J - Junior  C - Cadette  S - Senior

- Class 3100 stamp printing
- Class 3101 picture made from odds & ends
- Class 3102 made from nature (pebbles, animals, corn husk, etc.)
- Class 3103 Christmas tree ornament
- Class 3104 holiday decoration
- Class 3105 centerpiece
- Class 3106 hand molded articles (clay, paper mache, etc.)
- Class 3107 ceramic (commercial mold)
- Class 3108 wood (carving or burning)
- Class 3109 print (block, spatter, screen)
- Class 3110 stencil
- Class 3111 jewelry
- Class 3112 drawing, mounted, original
- Class 3113 painting, mounted, original
- Class 3114 kit art work
- Class 3115 photography, mounted, labeled
- Class 3116 collage
- Class 3117 handcraft weaving, basketry, or macrame
- Class 3118 metal work (tin punch, etc.)
- Class 3119 puppet
- Class 3120 mop doll
- Class 3121 flowers (silk or paper)
- Class 3122 leather craft
- Class 3123 toy (homemade)
- Class 3124 latch hook (pillow, rug or wall hanging)
- Class 3125 kitchen decoration (refrigerator magnet, etc.)
GENERAL
Class 3185 collection, mounted & labeled (stamps, rocks, insects)
Class 3186 individual scrapbook (all badge work activities)

Troop Entries judged on: general appearance, display, workmanship, and development of a theme, should show activity or study participated by troop
Class 3187 troop project
Class 3188 troop scrapbook

DIVISION IV - OPEN CLASS
Quonset Department Superintendents: Check in your personal entries and those of other superintendents at 7 a.m. This will allow everyone to be ready promptly at 7:30 to check in entries until 9:00. Quilts must be checked-in on Tuesday, July 6 at Mankato Community Center at 8:30. Judging will begin at 9:00. Quilt exhibitors are invited to observe the quilts being judged and are to take their quilts home on Tuesday. Quilts must be brought to the Quonset on the fairgrounds and checked in on Thursday, 7/8 (6:00-8:00 p.m.) or Friday, 7/9 7:30-9:00 a.m. Check out time for all exhibits in the Quonset starts at 4:30 p.m. on Sunday, July 11.

OPEN CLASS GENERAL RULES
Apply to all Division III departments; specific department rules will be listed under each department heading

1. Any resident of Jewell or an adjoining county (Cloud, Mitchell, Osborne, Smith, Republic, Nuckolls, and Webster) may exhibit in any open class department; no pre-entry is required. Open class exhibits must have been completed or grown since the 2019 Jewell County Fair.

2. In accordance with the regulations adopted by the Fair Board of Directors - absolutely no alcoholic or cereal malt beverages may be consumed or carried on the premises. Violating exhibitors will have all entries disqualified, or exhibitors will be escorted from the premises.

3. Violation of any established regulation will result in forfeiture of prize, ribbon, and premium.

4. Exhibitor not wanting an entry judged may designate “for display only”.

5. Open class entries are to be checked in Thursday, 7/8 (6:00-8:00 p.m.) or Friday, 7/9 7:30-9:00 a.m. in the Quonset (exception for quilts and foods). Late entries will be dropped one ribbon placing. Each exhibit must have a 2-sectional entry card.

6. Exhibits evaluated on appearance, appropriateness, design, material, workmanship, neatness of work and finish on both sides.
7. Each department will be assigned a judge to evaluate entries and based upon quality of exhibit and if worthy, will award a blue, red, or white ribbon to each exhibit; judging is not by conference and exhibitor is not to converse with judge during exhibit judging.

8. A premium will be paid based upon ribbon placing (exhibitor may designate ON ENTRY CARD to donate premium to the fair).

9. A Best of Show rosette may be awarded to the best blue entry in each category as judge chooses.

10. Exhibits will remain on display until Sun. 7/11, then released at 4:30 p.m.

11. The fair board, department superintendents, helpers, county extension agents, staff shall not be responsible for any accident, injury to any person or damage, loss, or injury of property.

12. If property owners or others desire protection for injury or damage from fire or other causes, arrangement and payment of such insurance is their responsibility.

13. Every department has a Something Old - Renewed category for exhibitors to enter an old item that has been repaired or restored in some manner. Exhibitor must have completed some part of the restoration.

Premium Money Guidelines: All exhibitors will be paid on basis of ribbons awarded to exhibits:
best of show - $2.50       blue - $2.00
red - $1.50     white - $1.00

Open Class Guidelines:
➔ category: within a department (i.e. cakes, roses, tatting)

➔ class: specific number assigned to an exhibit examples:

Department Category class
GARDEN small vegetable #3206 carrots

There are no youth or adult age divisions.

E - Expert: Anyone who instructs, sells, or has exceptional skills may choose to exhibit as an expert. Simply add the letter E to exhibitor number.

G - General Any age exhibitor residing in Jewell or adjoining counties.

Department 44 Crafts
1. Exhibitor may exhibit five (5) entries per class.
2. 2-sectional exhibit card is required per entry.

Ceramic Craft ceramic, pottery, porcelain
Class 4020 door/wall decoration
Class 4021 gift
Class 4022 hanging item
Class 4023 holiday/special occasion item
Class 4024 miscellaneous item
Class 4025 table covering/decoration

Fabric Craft made from fabric
Class 4030 door/wall decoration
Class 4031 gift
Class 4032 hanging item
Class 4033 holiday/special occasion item
Class 4034 miscellaneous item
Class 4035 table covering/decoration

Fair Theme

Miscellaneous Craft any other materials
Class 4040 door/wall decoration
Class 4041 gift
Class 4042 hanging item
Class 4043 holiday/special occasion item
Class 4044 miscellaneous item
Class 4045 table covering/decoration
Class 4046 barn quilt

Paper Craft made from paper
Class 4050 door/wall decoration
Class 4051 gift
Class 4052 hanging item
Class 4053 holiday/special occasion item
Class 4054 miscellaneous item
Class 4055 table covering/decoration

Wood Craft items made using wood
Class 4060 door/wall decoration
Class 4061 gift
Class 4062 hanging item
Class 4063 holiday/special occasion item
Class 4064 miscellaneous item
Class 4065 table covering/decoration

Something Old / Renewed any old ceramic, fabric, wood craft
(exhibitor must do part of the restoration)
Class 4066 repaired item
Class 4067 restored item
Class 4068 miscellaneous item

Department 45 Crochet / Knitting
1. Exhibitor may exhibit five (5) entries per class.
2. 2-sectional exhibit card is required per entry.

crocheted AFGHANS knitted
Class 4070 baby Class 4095
Class 4071 novelty Class 4096
Class 4072 original design Class 4097
Class 4073 ripple Class 4098
Class 3074 solid color Class 4099
Class 4075 squares Class 4100
Class 4076 stripes Class 4101
Class 4077 miscellaneous Class 4102

ITEMS
Class 4078 bib Class 4085 infant
Class 4079 booties/slippers Class 4086 toddler
Class 4080 doily Class 4087 teen
Class 4081 pillow Class 4088 adult
Class 4082 rug Class 4089 2-3 piece outfit
Class 4083 muffler, scarf, hat Class 4090 miscellaneous
Class 4084 miscellaneous Class 4091 repaired item

SWEATERS/VESTS
Class 4085 infant Class 4090 miscellaneous
Class 4086 toddler Class 4110
Class 4087 teen Class 4111
Class 4088 adult Class 4112
Class 4089 2-3 piece outfit Class 4113
Class 4090 miscellaneous Class 4114
Class 4091 repaired item Class 4115

Something Old / Renewed any old crocheted or knitted item
(exhibitor must do part of the restoration)
Class 4091 repaired item Class 4116
Class 4092 restored item Class 4117
Class 4093 miscellaneous item Class 4118

Department 46 Field Crops
1. All crops exhibited as harvested grain may be cleaned with a seed cleaner, but not handpicked.
2. Display grain samples in a quart jar.
3. List variety or hybrid name/number.
4. Exhibitor may exhibit five (5) entries per class.
5. 2-sectional exhibit card is required per entry.

Barley
Class 4140 bundle (3" sample)
Class 4141 grain sample (quart)

Corn
(husks on, one side open)
Class 4142 field corn (5 ears)
Class 4143 popcorn (10 ears)
Class 4144 sweet corn (5 ears)

Hay
6" flake standard bale or 10" cut section round bale
Class 4145 alfalfa
Class 4146 bromegrass
Class 4147 native grass

Oats
Class 4148 bundle (3" sample)
Class 4149 grain sample (quart)

Other Crops
Class 4150 special crop, (3" bundle)
Class 4151 special crop, grain sample (quart)

Sorghum
(5 entire stalks cut near ground, no roots, tie twice with twine, once near the heads and once near the base)
Class 4152 - hybrid grain (5 heads)
Class 4153 - grain sorghum (quart)
Class 4154 - hybrid forage (5 stalks)
Soybeans
(10 green plants, roots tied into bundle)
Class 4157 - plant sample
Class 4158 - grain sample (quart)

Sunflowers
Class 4159 - tame (3 heads)
Class 4160 - grain sample (quart)
Class 4161 - largest tame (sunflower head)
Class 4162 - tallest tame (sunflower stalk)
Class 4163 - tallest wild (sunflower stalk)

Wheat
Class 4164 - hard red bundle (3" sample)
Class 4165 - white bundle (3" bundle)
Class 4166 - hard red grain sample (quart)
Class 4167 - white grain sample (quart)

Exhibition
Class 4168 any other exhibit

Department 47 Garden
1. Refer to 4-H Garden Display guide, available at Extension Office to prepare exhibits.
1. Canned items, shelled vegetables may not be entered.
3. Choose vegetables for exhibit that will hold up well during the fair; avoid overripe or over mature specimens; slightly under ripe or slightly immature when picked may last longer.
4. Number of vegetable to exhibited: large vegetable-1 medium vegetable-4 small vegetable-5
5. Exhibitor may exhibit five (5) entries per class.
6. 2-sectional exhibit card is required per entry.

Garden display - to consist of required number of different fresh fruits and/or vegetables, only one variety of specific vegetable may be exhibited
Class 4175 small vegetable display
at least 3 different vegetables, must include a large, medium, and small vegetable class

Class 4176 large vegetable display
5 or more different vegetables, must include 1 large, 1 medium, and 1 small vegetable class, plus exhibitor’s choice of 2 additional vegetable classes

Class 4177 small fruit display
3 or more different fruit classes

Class 4178 large fruit display
5 or more different fruit classes

Class 4179 miscellaneous garden display: exhibitor’s choice of any combination of vegetable or fruit classes

Class 4180 fruit/vegetable combination display: at least 3 different fruits and 3 different vegetables

Large vegetables (1 specimen)
Class 4181 broccoli
Class 4182 cabbage
Class 4183 cantaloup
Class 4184 cauliflower
Class 4185 eggplant
Class 4186 pumpkin
Class 4187 summer squash
Class 4188 watermelon
Class 4189 winter squash
Class 4190 zucchini squash
Class 4191 miscellaneous

Medium vegetables (4 specimen)
Class 4193 bell peppers
Class 4194 cucumbers (6+)
Class 4195 red onions
Class 4196 yellow onions
Class 4197 white onions
Class 4198 red potatoes
Class 4199 white potatoes
Class 4200 sweet corn
Class 4201 tomatoes
Class 4202 turnips
Class 4203 miscellaneous

Small vegetables (5 specimen)
Class 4205 beans
Class 4206 beet
Class 4207 carrots
Class 4208 cherry tomatoes
Class 4209 cucumbers (less than 6")
Class 4210 okra
Class 4211 other peppers
Class 4212 miscellaneous
Class 4213 gourd
Class 4214 herbs

Fruits (# specimen by classes)
Class 4215 apples (10)
Class 4216 berries (5)
Class 4217 crab apples (10)
Class 4218 grapes (10)
Class 4219 peaches (5)
Class 4220  pears (5)
Class 4221  plums (10)
Class 4222  rhubarb (3 stalks, tops off)
Class 4223  miscellaneous

**Department 48  Floriculture**

1. Refer to flower show handbook, extension office.
2. Enter flowers in clear glass container. No foliage in water.
3. All house plants must be potted and in exhibitor’s possession at least 60 days.
4. All blooming house plants must be in bloom.
5. No artificial foliage or flowers are allowed in plant.
6. Exhibitor may exhibit five (5) entries per class.
7. 2-sectional exhibit card is required per entry.

**Coneflower**

Class 4230  purple, 1-3 stem
Class 4231  yellow, 1-3 stems
Class 4232  any other, 1-3 stems, any color

**Coreopsis**

Class 4235  pink, 1-3 stems
Class 4236  yellow, 1-3 stems
Class 4237  any other, 1-3 stems, any color

**Cosmos**

Class 4240  any color, 1 stem
Class 4241  any color, 3 stems

**Dahlia**

Class 4245  large decorative, 1-3 stems, any color
Class 4246  small decorative, 1-3 stems, any color
Class 4247  pompon, 1-3 stems, any color

**Daisy**

Class 4250  Shasta, 1-3 stems, any color
Class 4251  Gloriosa, 1-3 stems, any color
Class 4252  any other, 1-3 stems, any color

**Gaillardia**

Class 4253  any color, 1 stem
Class 4254  any color 1-3 stems

**Gladioli**

Class 4256  large, 1 stem, any color
Class 4257  small, 1 stem, any color
Class 4258  any other, 1-3 stems, any color

**Hollyhock**

Class 4264  single, 1stem, any color
Class 4265  double, 1stem, any color

**Lily**

Class 4268  tiger, 1 stem, any color
Class 4269  day, 1 stem, any color
Class 4270  hybrid, 1 stem, any color
Class 4271  dwarf day, 1 stem, any color

**Marigold**

Class 4272  small, 1 stem, any color
Class 4273  large,1 stem, any color
Class 4274  any other, 3 stems, any color

**Pansy**

Class 4275  viola,1 stem, any color (johnny-jump-up)
Class 4276  viola,1-3 stems, any color (johnny-jump-up)
Class 4277  any other, 1-3 stems, any color

**Petunia**

Class 4278  hybrid single, 1 stem, any color
Class 4279  hybrid single, 3 stems, any color
Class 4280  double, 1 stem, any color
Class 4281  double, 3 stems, any color
Class 4282  common, 1 stem, any color
Class 4283  common, 3 stems, any color
Class 4284  dwarf, 1 stem, any color

**Phlox**

Class 4285  annual, 1 stem, any color
Class 4286  annual, 3 stems, any color
Class 4287  perennial, 1 stem, any color
Class 4288  perennial, 3 stems, any color

**Pinks**

Class 4290  1 stem, any color
Class 4291  3 stems, any color

**Rose**

Class 4294  miniature, 1 bloom, any color
Class 4295  hybrid tea, 1 bloom, any color
Class 4296  floribunda, 1 bloom, any color
Class 4297  any other, 1 bloom, any color

**Snapdragon**

Class 4298  large, 1 any color
Class 4299  large, 3 any color
Class 4300  miniature, 1 stem, any color
Class 4301  miniature, 3 stems, any color

**Sunflower**

Class 4303  tame, 1 stem, any color
Class 4304  tame, 3 stems, any color
Class 4305  bicolor, 1 stem, any color
Class 4306  bicolor, 3 stems, any color

Zinnia
Class 4307  small, 1 stem, any color  
Class 4308  large, 1 stem, any color  
Class 4309  small, 3 stems, any color  
Class 4310  large, 3 stems, any color  

Misc. Flower
Class 4311  small, 1 stem, any color  
Class 4312  large, 1 stem, any color  
Class 4313  small, 3 stems, any color  
Class 4314  large, 3 stems, any color  

Cacti
Class 4315  dish garden, 3 or more different cacti  
Class 4316  cacti  

Succulents
Class 4317  Rubber Plant  
Class 4318  Jade  
Class 4319  Mother-in-law Tongue  
Class 4320  Aloe  
Class 4321  any other  

Blooming Plant
Class 4322  African Violet  
Class 4323  Begonia  
Class 4324  Geranium  
Class 4325  any other  

Non-blooming Plant
Class 4326  foliage  
Class 4327  ferns  
Class 4328  Swedish Ivy  
Class 4329  any other  

Hanging Plant
Class 4330  blooming  
Class 4331  non-blooming  

Bouquet with fresh plant materials  
(may be changed each day)  
Class 4332  artistic design bouquet  

Bouquet all-natural self-dried plant materials  
(no purchased materials)  
Class 4333  artistic design bouquet  

Department 49  Foods  
NOTE:  Check in: 9:30 a.m.  Judging at: 10:00 a.m.  
Tuesday morning, July 6 at  Mankato Community Center. A sample will be kept for display during county fair in the Quonset.  
1. Place exhibit on covered cardboard of suitable size in a clear plastic bag; do not use plastic wrap.  
2. Commercial mixes may be used only as an ingredient in a special recipe; entries made solely from commercial mix will not be allowed.  
3. Exhibitor may exhibit five (5) entries per class.  
4. 2-sectional exhibit card is required per entry.  

Exhibitors - Please bring 3 extra smaller items  
(cookies, cupcakes, muffins) to increase number of food sale items.  There will be a Bake Sale this year.  

Cookie definitions:  
dropped: dropped by spoonful onto cookie sheet  
bar: spread into baking pan and cut when cool  
molded: rolled into ball, pressed with glass or fork  
rolled: rolled with rolling pin and cut into shapes  
pressed: shapes formed with a mechanical cookie press  
filled: any cookie with a filling  
icebox: wrapped in waxed paper, chilled, sliced, baked  

Cakes
Class 4335  angel food, upright, unfrosted  
Class 4336  bundt  
Class 4337  chiffon, upright, unfrosted  
Class 4338  chocolate 2-layer cake  
Class 4339  cupcakes (4)  
Class 4340  fruit, spice  
Class 4341  pound  
Class 4342  white 2-layer cake  
Class 4343  miscellaneous 2-layer cake  

Decorated Cakes  
(may use forms, only decoration judged, need not be covered)  
Class 4345  birthday  
Class 4346  child’s birthday  
Class 4347  cut up  
Class 4348  holiday  
Class 4349  special event  
Class 4350  wedding  
Class 4351  miscellaneous  

PAGE 55
Score cards:

<table>
<thead>
<tr>
<th>Candy (4 pieces per class)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 4352 brittle candy</td>
</tr>
<tr>
<td>Class 4353 brown sugar</td>
</tr>
<tr>
<td>Class 4354 chocolate fudge</td>
</tr>
<tr>
<td>Class 4355 divinity</td>
</tr>
<tr>
<td>Class 4356 peanut brittle</td>
</tr>
<tr>
<td>Class 4357 peanut butter</td>
</tr>
<tr>
<td>Class 4358 miscellaneous</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cookies (six (6) cookies per class)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 4361 bar</td>
</tr>
<tr>
<td>Class 4362 bran/ whole wheat</td>
</tr>
<tr>
<td>Class 4363 brownies</td>
</tr>
<tr>
<td>Class 4364 butterscotch chip</td>
</tr>
<tr>
<td>Class 4365 chocolate chip</td>
</tr>
<tr>
<td>Class 4366 dropped</td>
</tr>
<tr>
<td>Class 4367 filled</td>
</tr>
<tr>
<td>Class 4368 fruit (drop, pinwheel, bar)</td>
</tr>
<tr>
<td>Class 4369 ginger snaps</td>
</tr>
<tr>
<td>Class 4370 ice box</td>
</tr>
<tr>
<td>Class 4371 no bake</td>
</tr>
<tr>
<td>Class 4372 oatmeal</td>
</tr>
<tr>
<td>Class 4373 original recipe (recipe)</td>
</tr>
<tr>
<td>Class 4374 party</td>
</tr>
<tr>
<td>Class 4375 peanut butter</td>
</tr>
<tr>
<td>Class 4376 pressed</td>
</tr>
<tr>
<td>Class 4377 snicker dough</td>
</tr>
<tr>
<td>Class 4378 sugar (plain)</td>
</tr>
<tr>
<td>Class 4379 miscellaneous (recipe)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Decorated Cakes</th>
</tr>
</thead>
<tbody>
<tr>
<td>artistic value</td>
</tr>
<tr>
<td>appearance</td>
</tr>
<tr>
<td>color combination</td>
</tr>
<tr>
<td>difficulty</td>
</tr>
<tr>
<td>originality</td>
</tr>
<tr>
<td>suitable design</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Angel Food &amp; Chiffon Cakes</th>
</tr>
</thead>
<tbody>
<tr>
<td>appearance</td>
</tr>
<tr>
<td>lightness</td>
</tr>
<tr>
<td>crust</td>
</tr>
<tr>
<td>crumb</td>
</tr>
<tr>
<td>flavor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bread</th>
</tr>
</thead>
<tbody>
<tr>
<td>appearance</td>
</tr>
<tr>
<td>lightness</td>
</tr>
<tr>
<td>crust</td>
</tr>
<tr>
<td>crumb</td>
</tr>
<tr>
<td>flavor</td>
</tr>
</tbody>
</table>

Quick Breads (1 loaf) / Muffins (4) / Biscuits (4)

<table>
<thead>
<tr>
<th>Pies (2-crust, 8&quot; or 9&quot;) (judged on appearance, texture and flavor of crust &amp; filling)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 4380 apple</td>
</tr>
<tr>
<td>Class 4381 apricot</td>
</tr>
<tr>
<td>Class 4382 blueberry</td>
</tr>
<tr>
<td>Class 4383 cherry</td>
</tr>
<tr>
<td>Class 4384 peach</td>
</tr>
<tr>
<td>Class 4385 raisin</td>
</tr>
<tr>
<td>Class 4386 any other fruit pie</td>
</tr>
<tr>
<td>Class 4387 rhubarb</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yeast Bread (4&quot; x 8&quot; or 5&quot; x 9&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 4390 apple bread</td>
</tr>
<tr>
<td>Class 4391 baking powder biscuits</td>
</tr>
<tr>
<td>Class 4392 banana bread</td>
</tr>
<tr>
<td>Class 4393 banana muffins</td>
</tr>
<tr>
<td>Class 4394 blueberry bread</td>
</tr>
<tr>
<td>Class 4395 blueberry muffins</td>
</tr>
<tr>
<td>Class 4396 bran or whole wheat</td>
</tr>
<tr>
<td>Class 4397 coffee cake (max 8&quot; x 8&quot;)</td>
</tr>
<tr>
<td>Class 4398 corn bread</td>
</tr>
<tr>
<td>Class 4399 nut</td>
</tr>
<tr>
<td>Class 4400 pumpkin</td>
</tr>
<tr>
<td>Class 4401 zucchini</td>
</tr>
<tr>
<td>Class 4402 miscellaneous quick bread</td>
</tr>
<tr>
<td>Class 4403 miscellaneous muffin</td>
</tr>
<tr>
<td>Class 4404 miscellaneous biscuit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yeast Rolls (6 rolls)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 4418 bread machine</td>
</tr>
<tr>
<td>Class 4419 cinnamon</td>
</tr>
<tr>
<td>Class 4420 dinner</td>
</tr>
<tr>
<td>Class 4421 home milled flour</td>
</tr>
<tr>
<td>Class 4422 refrigerator</td>
</tr>
<tr>
<td>Class 4423 special (cheese, dill, onion)</td>
</tr>
<tr>
<td>Class 4424 sweet</td>
</tr>
<tr>
<td>Class 4425 miscellaneous yeast rolls</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bread Machine Bread (1 loaf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 4430 rye</td>
</tr>
<tr>
<td>Class 4431 white</td>
</tr>
<tr>
<td>Class 4432 whole wheat</td>
</tr>
</tbody>
</table>
COMMISSIONERS' COOKIE JAR
1. Fill a clear glass or clear plastic, gallon jar decorated using the county fair theme "Jewell County Fair – Small Town Throw Down" with assortment of at least five (5) different varieties of cookies visible with at least 25 cookies total.
2. Evaluation is 25% decorated jar, 75% selection of cookies.
3. A sample of each variety of cookie is to be identified and individually wrapped with clear plastic and placed in a flat box for the judge to evaluate.
4. Exhibit may be an individual or group entry.
5. Exhibitor will present winning Cookie Jar to County Commissioners during Fashion Revue on Sun., July 11 at 6:00 p.m.
6. 2-sectional entry card is required for each exhibit.

TREASURER’S COOKIE TIN
1. Arrange a collection of any three (3) different cookie classes, (total of 18 cookies) in a tin decorated using fair theme "Jewell County Fair – Small Town Throw Down".
2. The sample of the cookie exhibited as individual entry will be used by judge during judging of the cookie tin. Any product included in cookie tin that has not been judged as an individual entry must have sample for judge to taste.
3. Evaluation will be 25% for cookie tin and 75% for selection of cookies.
4. Each kind of cookie must be individually wrapped and identified for the judge.
5. Exhibitor of the winning Cookie Tin will present the cookie tin to Jewell County Fair Treasurer Lesa Peroutek during the Fashion Revue Sunday, July 11 at 6:00 p.m.
6. 2-sectional entry card is required for each exhibit.

BREAD SCULPTURES
1. This is a 2021 Kansas State Fair Contest.
2. Bread sculpture may be constructed from frozen dough or yeast dough made from scratch.
3. Bread sculptures will not be tasted.
4. Seeds, herbs and other edible decorative toppings and icings may be used.
5. Must submit a typed, detailed recipe including shaping instructions with step by step photos or sketches on an 8 ½” x 11” paper with name and address in lower left corner (will be covered prior to judging). Include age for youth entries.
6. No size restrictions; for small individual sculptures, 6 should be entered. (ex: bunnies, turtles)
7. All sculptures must be received on a sturdy, disposable plate, board, or tray and will remain on display throughout the fair.

Food Preservation Guidelines
1. No colored jars can be used.
2. All preserved entries, jellies, fruits, vegetables, including tomatoes, pickles, relishes, and canned meats, must have been processed following USDA recommended methods. Information is available at the Extension Office. Open kettle canning method is not acceptable.
4. Canned products must be exhibited in standard half pint, pint, or quart jars. Jars must have screw rings. All space except proper head space should be filled.
5. Exhibit one jar unless otherwise specified.
6. All canning entries must use fresh products and have been canned after Aug 1, 2020.

Jams
- Class 4515 apricot
- Class 4516 blackberry
- Class 4517 cherry
- Class 4518 choke cherry
- Class 4519 elderberry
- Class 4520 grape
- Class 4521 collection of jams, 3 kinds
- Class 4522 peach
- Class 4523 pineapple
- Class 4524 raspberry
- Class 4525 strawberry
- Class 4526 zucchini
- Class 4527 miscellaneous jam

Jellies
Class 4530 apple
Class 4531 blackberry
Class 4532 choke cherry
Class 4533 corn cob
Class 4534 crab apple
Class 4535 cherry
Class 4536 currant
Class 4537 elderberry
Class 4538 gooseberry
Class 4539 grape
Class 4540 peach
Class 4541 raspberry
Class 4542 sand hill plum
Class 4543 wild plum
Class 4544 - miscellaneous jelly
Class 4545 - collection of jellies, 3 kinds

Preserves and Butters
Class 4550 apple
Class 4551 apricot
Class 4552 cherry
Class 4553 crab apple
Class 4554 grape
Class 4555 marmalade
Class 4556 peach
Class 4557 pear
Class 4558 plum
Class 4559 rhubarb
Class 4560 strawberry
Class 4561 tomato (red)
Class 4562 watermelon
Class 4563 miscellaneous preserve or butter
Class 4564 collection of 3 kinds preserve or butter

Canned Fruits
Class 4566 apples
Class 4567 applesauce
Class 4568 apricots
Class 4569 berries (any kind)
Class 4570 bing cherries
Class 4571 cherries (any kind)
Class 4572 currents
Class 4573 elderberries
Class 4574 fruit juice (any kind)
Class 4575 grapes
Class 4576 peaches
Class 4577 pears
Class 4578 pineapple
Class 4579 raspberries
Class 4580 rhubarb
Class 4581 miscellaneous fruit
Class 4582 collection of fruits (3 kinds)

Canned Meats
Class 4583 beef
Class 4584 chicken
Class 4585 pork
Class 4586 - miscellaneous meat

Canned Vegetable
Class 4587 beans, green
Class 4588 beans, yellow
Class 4589 beets
Class 4590 carrots
Class 4591 corn
Class 4592 peas
Class 4593 potatoes
Class 4594 sauerkraut
Class 4595 summer squash
Class 4596 tomatoes
Class 4597 vegetable juice
Class 4598 miscellaneous vegetables
Class 4599 collection of vegetables (3 kinds)

Dried Foods
Class 4600 dried fruit (½ to ¾ cup)
Class 4601 dried vegetable (½ to ¾ cup)
Class 4602 fruit leather, any flavor, three 4" to 6" rolled pieces
Class 4603 hiking collection, ½ to ¾ cup, 3 different dried foods
Class 4604 jerky (three 3" pieces, 1" thick)

Pickles and Relish
Class 4610 beets
Class 4611 bread and butter
Class 4612 cucumber, sweet
Class 4613 cucumber, dill
Class 4614 cucumber, red cinnamon
Class 4615 okra
Class 4616 peppers
Class 4617 relish
Class 4618 watermelon
Class 4619 miscellaneous pickle
Class 4620 miscellaneous relish
Class 4621 collection of pickles (3 kinds)
Class 4622 collection of relishes (3 kinds)

Sauces
Class 4623 chili sauce
Class 4624 pizza sauce
Class 4625 salsa
Class 4626 - spaghetti sauce
Class 4627 - tomato catsup
Class 4628 - miscellaneous sauce
Class 4629 - collection of 3 different sauces
Bake sale:
2:00 p.m. Tuesday, July 6
All food preparation exhibits ARE SOLD as soon as judged. **No food preservation can be sold.**

**Department 50  Hand Work**
1. All drawings and hangings must be matted or framed and ready for hanging.
2. Exhibitor may enter five (5) entries/class.
3. 2-sectional card is required per entry.

**NEEDLE WORK**

**Applique**
- Class 4640  article
- Class 4641  holiday
- Class 4642  jewelry
- Class 4643  luncheon cloth
- Class 4644  pillow
- Class 4645  pillow case
- Class 4646  special occasion
- Class 4647  sweatshirt
- Class 4648  towel
- Class 4649  wall hanging
- Class 4650  miscellaneous

**Crewel / Needlepoint**
- Class 4651  article
- Class 4652  holiday
- Class 4653  jewelry
- Class 4654  luncheon cloth
- Class 4655  pillow
- Class 4656  pillow case
- Class 4657  special occasion
- Class 4658  sweatshirt
- Class 4659  towel
- Class 4660  wall hanging
- Class 4661  miscellaneous

**Cross and Counted Stitch**
- Class 4662  article
- Class 4663  holiday
- Class 4664  jewelry
- Class 4665  luncheon cloth
- Class 4666  pillow
- Class 4667  pillow case
- Class 4668  special occasion
- Class 4669  sweatshirt
- Class 4670  towel
- Class 4671  wall hanging
- Class 4672  miscellaneous

**Cutwork**
- Class 4673  article
- Class 4674  machine cutwork
- Class 4675  holiday
- Class 4676  special occasion
- Class 4677  luncheon cloth
- Class 4678  runner
- Class 4679  tablecloth
- Class 4680  miscellaneous

**Embroidery (hand or machine)**
- Class 4681  afghan
- Class 4682  hand/ tea towel
- Class 4683  holiday
- Class 4684  liquid embroidery
- Class 4685  pillow
- Class 4686  pillow case
- Class 4687  ribbon embroidery
- Class 4688  scarf/runner
- Class 4689  special occasion
- Class 4690  tablecloth
- Class 4691  wall hanging
- Class 4692  misc hand embroidery
- Class 4693  misc machine embroidery

**Tatting**
- Class 4695  doily
- Class 4696  handkerchief edging
- Class 4697  holiday
- Class 4698  lace
- Class 4699  sampler
- Class 4700  special occasion
- Class 4701  miscellaneous

**Other Hand and Machine Work**
- Class 4705  braiding
- Class 4706  candle wick
- Class 4707  free motion
- Class 4708  hemstitch
- Class 4709  hooked, any material
- Class 4710  latch hook
- Class 4711  monogram
- Class 4712  needle punch
- Class 4713  open work (hand)
- Class 4714  open work (machine)
- Class 4715  smocking
- Class 4716  tufting
- Class 4717  weaving- daisy winder, knit wit, looper loom
- Class 4718  miscellaneous

**Something Old / Renewed**
(Any type of needle work (exhibitor must do part of the restoration))
ART WORK

Acrylic
Class 4751 abstract
Class 4752 figure
Class 4753 landscape
Class 4754 portrait
Class 4755 still life
Class 4756 miscellaneous

Charcoal
Class 4757 abstract
Class 4758 figure
Class 4759 landscape
Class 4760 portrait
Class 4761 still life
Class 4762 miscellaneous

Crayon
Class 4763 abstract
Class 4764 figure
Class 4765 landscape
Class 4766 portrait
Class 4767 still life
Class 4769 miscellaneous

Ink
Class 4770 abstract
Class 4771 figure
Class 4772 landscape
Class 4773 portrait
Class 4774 still life
Class 4775 miscellaneous

Mixed Media
Class 4776 abstract
Class 4777 figure
Class 4778 landscape
Class 4779 portrait
Class 4780 still life
Class 4781 miscellaneous

Oil
Class 4782 abstract
Class 4783 figure
Class 4784 landscape
Class 4785 portrait
Class 4786 still life
Class 4787 miscellaneous

Pastel
Class 4788 abstract
Class 4789 figure
Class 4790 landscape
Class 4791 portrait
Class 4792 still life
Class 4793 miscellaneous

Pencil /Colored Pencil
Class 4794 abstract
Class 4795 figure
Class 4796 landscape
Class 4797 portrait
Class 4798 still life
Class 4799 miscellaneous

Tempera
Class 4800 abstract
Class 4801 figure
Class 4802 landscape
Class 4803 portrait
Class 4804 still life
Class 4805 miscellaneous

Watercolor
Class 4806 abstract
Class 4807 figure
Class 4808 landscape
Class 4809 portrait
Class 4810 still life
Class 4811 miscellaneous

Something Old / Renewed
(exhibitor must do part of the restoration)
Class 4812 repaired item
Class 4813 restored item
Class 4814 miscellaneous item

Department 51 PHOTOGRAPHY
1. Enlargements must be 5"x7" to 8"x10".
2. Remove white border from the photo print before mounting.
3. Enlargements are to be permanently mounted on white or complementary color mat, across the narrow dimension of a studio mount.
4. Permanent adhesive recommended. Do not use rubber cement; it does not withstand county fair conditions. Exhibits are to be matted but not framed.
5. Exhibitor may enter five (5) entries per class.
6. 2-sectional card required per entry.
8. Photos are to be mounted with the top edge of the print 1" below the top of the mount; the sides of the print must be equal distance from the two sides of the mount.

See mounting diagram:

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</table>

Photos are to be mounted with the top edge of the print 1" below the top of the mount; the sides of the print must be equal distance from the two sides of the mount.

Enlargements
(at least 5" x 7" to 8"x10")

- Class 4830 any animal
- Class 4831 any building
- Class 4832 any black/white
- Class 4833 any flowers
- Class 4834 any landscape
- Class 4835 any subject
- Class 4836 any people
- Class 4837 **Jewell County Commissioner’s Best of Show Award**

**Computer**

- Class 4838 any enhanced or manipulated photo

**Any Other Photo**

- Class 4839 any other

- **Snapshots** (3"x5" or 4"x6")
  - Class 4840 photo story (3-5 snapshots)
  - Class 4841 photo series (3-5 snapshots)
  - Class 4842 favorites (one: animal, building, landscape & people, 3"x5" only)

- **Something Old / Renewed any type of old photograph**
  (exhibitor must do part of the restoration, original photo must be included)
  - Class 4843 repaired item
  - Class 4844 restored item
  - Class 4845 miscellaneous item

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**Department 52 Quilting**

**Check in:** 8:30 a.m.

**Judging at:** 9:00 Tuesday morning, July 6 at Mankato Community Center. All quilts displayed during county fair in the Quonset.

1. Exhibitor may enter five (5) entries per class.
2. 2-sectional card is required per entry.
3. Exhibits must be completed in the past year.
4. Exhibits judged at Mankato Community Center.
5. Exhibitors welcome during judging.
6. Exhibits to be taken home after judging.
7. Exhibits must be checked in Thursday, 7/9 (6:00-8:00 p.m.) or Friday, 7/10 (7:30-8:30 a.m.) at the Quonset for display during the county fair.

**Hand Quilted**

- Class 4860 applique quilt
- Class 4861 beginner’s quilt (36" x 54" minimum size, all work completed by first time quilt maker within past year)
- Class 4862 cross stitched/embroidered quilt
- Class 4863 miscellaneous quilt
- Class 4864 mixed media quilt (e.g. applique & pieced)
- Class 4865 original quilt
- Class 4866 quilt made by a child (7-12 yrs)
- Class 4867 quilt made by a child (13-18 yrs)
- Class 4868 quilt made by group/organization
- Class 4869 quilter 80 years old or over
- Class 4870 pieced quilt
- Class 4871 tied quilt

**Machine Quilted**

- Class 4874 applique quilt
- Class 4875 beginner’s quilt (36" x 54" minimum size, all work completed by first time quilt maker within past year)
- Class 4876 cross stitched/embroidered quilt
- Class 4877 miscellaneous quilt
- Class 4878 mixed media quilt (e.g. applique & pieced)
- Class 4879 original quilt
- Class 4880 quilt made by a child (7-12 yrs)
- Class 4881 quilt made by a child (13-18 yrs)
- Class 4882 quilt made by group/organization
- Class 4883 quilter 80 years old or over
- Class 4884 pieced quilt
- Class 4885 tied quilt

**Hand Quilted by a Second Party**

- Class 4888 applique quilt
Class 4889  beginner’s quilt (36" x 54" minimum size, all work completed by first time quilt maker within past year)
Class 4890  cross stitched/embroidered quilt
Class 4891  miscellaneous quilt
Class 4892  mixed media quilt (e.g. applique & pieced)
Class 4893  original quilt
Class 4894  quilt made by a child (7-12 yrs)
Class 4895  quilt made by a child (13-18 yrs)
Class 4896  quilt made by group/organization
Class 4897  quilter 80 years old or over
Class 4898  pieced quilt
Class 4899  tied quilt

Machine Quilted by a Second Party
Class 4900  applique quilt
Class 4901  beginner’s quilt (36" x 54" minimum size, all work completed by first time quilt maker within past year)
Class 4902  cross stitched/embroidered quilt
Class 4903  miscellaneous quilt
Class 4904  mixed media quilt (e.g. applique & pieced)
Class 4905  original quilt
Class 4906  quilt made by a child (7-12 yrs)
Class 4907  quilt made by a child (13-18 yrs)
Class 4908  quilt made by group/organization
Class 4909  quilter 80 years old or over
Class 4910  pieced quilt
Class 4911  tied quilt

Hand Quilted Small Items
Class 4912  crib quilt
Class 4913  miniature quilt (max.18" x 18")
Class 4914  quilted article (not a quilt)
Class 4915  quilted item (wearable)
Class 4916  table runner
Class 4917  wall hanging

Machine Quilted Small Items
Class 4918  crib quilt
Class 4919  miniature quilt (max.18" x 18")
Class 4920  quilted article (not a quilt)
Class 4921  quilted item (wearable)
Class 4922  table runner
Class 4923  wall hanging

Something Old / Renewed
any type of old quilt or quilted item (exhibitor must do part of the restoration)
Class 4924  repaired quilt
Class 4925  restored quilt

Department 53  Recycling
1. Exhibitor may enter five (5) entries per class.
2. 2-sectional card is required per entry.

Fabric / Garments
Class 4954  coat / jacket
Class 4955  quilt
Class 4956  vest
Class 4957  wearable item

Environmental
(promotes reducing, recycling, reusing)
Class 4958  collage
Class 4959  display
Class 4960  mobile
Class 4961  notebook
Class 4962  poster

From the Scrap Pile
Class 4963  functional item
Class 4964  non-functional item

Household
Class 4965  decorative item
Class 4966  useable item

Outside / Lawn
Class 4967  decorative item
Class 4968  useable item

Something Old / Renewed
any type of old item (exhibitor must do part of the restoration)
Class 4969  repaired item
Class 4970  restored item
Class 4971  miscellaneous item

Department 54  Sewing
1. Exhibitor may enter five (5) entries per class.
2. 2-sectional card is required per entry.

Serger Made Garments
Class 4972  infant garment
Class 4973  infant outfit
Class 4974  toddler garment
Class 4975  toddler outfit
Class 4976  teen garment
Class 4977  teen outfit
Class 4978  adult garment
Class 4979  adult outfit
Machine Made Garments

Class 4980 infant garment
Class 4981 infant outfit
Class 4982 toddler garment
Class 4983 toddler outfit
Class 4984 teen garment
Class 4985 teen outfit
Class 4986 adult garment
Class 4987 adult outfit

Repaired / Mended

Class 4988 article
Class 4989 garment
Class 4990 household item
Class 4991 outside / lawn item
Class 4992 miscellaneous

Non-wearable

Class 4993 decorative
Class 4994 household item
Class 4995 outside / lawn item
Class 4996 miscellaneous

Something Old / Renewed

any type of old sewn item
(exhibitor must do part of the restoration)
Class 4997 repaired item
Class 4998 restored item
Class 4999 miscellaneous item

Department 55  open class  BEEF
Class 5020-5040 (plus one of the designated letters below)
A-light weight  B-medium weight  C-heavy weight
A. heifer calves (dropped after Sept 1 of previous yr)
B. heifer summer yearling and junior yearlings
   (dropped between Jan 1 & Aug 31 of previous yr)
C. heifer senior yearlings (dropped 9-1-19 & 12-31-19)
D. bred heifer
E. cow (dropped before August 31, 2019)
F. cow and calf

MARKET STEERS
Class 5125 market steers

MARKET HEIFERS
Class 5129 - Market Heifer
A-light weight  B-medium weight  C-heavy weight

STOCKER-FEEDER
1. animals are grown for meat production
2. animals are fed a growing ration
Class 5140 - animals weighing 350-600 pounds
Class 5141 - animals weighing 601-900 pounds

BUCKET CALF
Class 5142 -Bucket Calf

Department 56  open class  DAIRY
Classes 5150-5165 (plus one of the designated letters below)
A. heifer calves, born  Aug 1, 2020-July 1, 2021
B. yearling heifers, born between 8-1-19 - 7-31-20
C. 2 year old, born between 8-1-18 - 7-31-19
D. 3 year old, born between 8-1-17 - 7-31-18
E. aged cows, born before July 31, 2017

Department 57  open class  GOATS
Classes 5170-5178 (plus one of the designated letters below)
A. does born after January 1, 2021
B. does born between July 1, 2020 - Dec 31, 2020
C. does born between July 1, 2019 - June 30, 2020
D. does born before July 1, 2019
E. goat wethers born after February 1, 2020
F. goat wethers born before February 1, 2020

Department 58  open class  HORSES
A. weanling B. yearling C. 2-3 year old  D. 4+ years

Filly or Mare
Class 5200 A, B, C, D
Class 5201 champion filly/mare
   (must receive blue in class 5200)

Geldings
Class 5202 - A, B, C, D

DIVISION V

Open Class LIVESTOCK

Guidelines on pages 6-9 apply, open class animals will be judged immediately following completion of 4-H/FFA judging; Open Class Departments must follow same guidelines as 4-H/FFA departments.
Class 5203 champion gelding  
(must receive blue in class 5202)

Performance Classes
Class 5219  leadline (5 - 7 yr. olds)  
(adult leads youth into arena)
Class 5220  walk/trot
Class 5221  western pleasure - youth
Class 5222  western pleasure - adult  
Class 5223  two yr old snaffle bit western pleasure
Class 5224  western horsemanship- youth
Class 5225  western horsemanship- adult
Class 5226  trail
Class 5227  reining
Class 5228  pole bending
Class 5229  barrels
Class 5230  key hole
Class 5231  costume class
Class 5232  mules, halter class

English Classes
Class 5238 - Hunter Under Saddle - Any Age

Department 59  open class
OTHER ANIMALS
Class 5243  llama obstacle course (if enough animals)
Class 5244  other animal on halter

Department 60  open class  PETS
Call extension office for time NO PETS SHOW this yr.
Class 5260 pets show & tell

Department 61  open class  POULTRY
Class 5278  standard breeds, lg fowl, one young bird, 
either sex
Class 5279  standard breeds, large fowl, one old bird, 
either sex
Class 5280  standard breeds, Bantams, one young bird, 
either sex
Class 5281  standard breeds, Bantams, one old bird, 
either sex
Class 5282  production pullets, pen of 3 standard bred, 
crossbred or strain-cross for egg production qualities
Class 5283  production hens, pen of 3, standard-bred, 
crossbred or strain-cross for egg production qualities
Class 5284 dual purpose pullets, pen of 3 (such as Rhode 
Island Reds, New Hampshire, Plymouth Rocks, etc.)
Class 5285 dual purpose hens, pen of 3 (such as Rhode 
Island Reds, New Hampshire, Plymouth Rocks, etc.)
Class 5286 turkeys, one bird, either sex
Class 5287 ducks, call or bantam, all breeds, one bird, 
either sex
Class 5288 ducks, all breeds, one bird, either sex
Class 5289 geese, all breeds, one bird, either sex
Class 5290 Other Fowl

MARKET CLASS
Class 5291 - meat-type chickens, pen of 3, same sex for 
meat production qualities, minimum weight 3½ #, no max 
weight

Department 62 open class  RABBITS
Class number and the proper letter on entry card.
A. junior doe - under six months of age
B. 6-8 month doe
C. senior doe - eight months of age or over
D. junior buck - under six months of age
E. 6-8 month buck
F. senior buck - eight months of age or over

MARKET CLASS
Class 5300 - meat class - (three rabbits), max wt 5 # each

BREEDING CLASS
Class 5301 Angora
Class 5302 Standard Rex
Class 5303 Satin
Class 5304 French Lop
Class 5305 Chinchilla
Class 5306 California
Class 5307 Dutch
Class 5308 New Zealand White
Class 5309 Other (list breed)
Class 5310 Commercial (crossbred)
Class 5311 Fur
Class 5312 Holland Lop
Class 5313 Mini Rex
Class 5314 Flemish Giant

Department 63 open class  SHEEP
MARKET LAMBS
A: X light wt  B: light wt  C: medium wt  
D: heavy wt  E: X heavy wt  F: XX heavy wt
Class 5330 market lamb
Class 5333 pen of three

BREEDING EWES
Classes 5345-5360 (followed by designated letter below)
A. ewe lamb (must be born on or after Sept 1, 2020)
B. yearling ewe (must be born on or between 9/1/19 and 
8/31/20)

BREEDING RAMS
A. Rams born August 1, 2019-January 31, 2020
B. Ram lambs born February 1, 2020 - Aug 1, 2020
Classes 5361-5364 (followed by designated letter above)

Department 64 open class  SWINE
Market Pig
(use letter to designate weight)
A-heavy wt, B-medium wt, C-medium light wt, 
D-light wt
Class 5380 market pig
Breeding Classes - divided into breeds or gilt’s month of birth  
Class 5390-5395 - recommended wt 180+ lbs.

Sow and Litter  
Class 5397 aged sow  
Class 5398 sow and litter (less than eight weeks of age)  
Class 5399 pen of four from one litter (weaned)

Department 65 SHOWMANSHIP CONTEST

BEEF  
Class 5411 - general division  
Class 5412 - expert division (professional)

DAIRY  
Class 5414 - general division  
Class 5415 - expert division (professional)

GOATS  
Class 5417 - general division  
Class 5418 - expert division (professional)

DOG  
Class 5420 - general division  
Class 5421 - expert division (professional)

HORSE  Showmanship-at-Halter Classes  
Class 5423 - general division  
Class 5424 - expert division (professional)

OTHER ANIMAL
Class 5425 - general division  
Class 5427 - expert division (professional)

POULTRY  
Class 5428 - general division  
Class 5430 - expert (professional)

RABBITS
Class 5432 - general division  
Class 5433 - expert division (professional)

SHEEP
Class 5435 - general division  
Class 5436 - expert division (professional)

SWINE
Class 5438 - general division  
Class 5439 - expert division (professional)

2021 Jewell County Fair graphics drawn by Tonia Underwood. Thank you, Tonia!

2022 Jewell County Fair will be July 7-10.
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2021 Jewell County Fair
Age Divisions / Special Awards / Organizations / Work Schedules

Open Class: Jewell & adjoining counties residents
(KS: OB, SM, MC, RP; NE: Webster, Nuckolls)
G - general any age (there are no age divisions in any open class departments)
E - expert - optional anyone who judges, sells, or teaches a specific skill may choose to exhibit in classes designated only for individuals with exceptional skills (designate “G” general OR “E” expert with exhibitor number)

4-H / FFA: (age on 1/1/21)
Livestock Showmanship: junior (7-12), senior (13 & older)
Fashion Revue: junior (7-13), senior (14 & older)
Other entries (Quonset exhibits and judging contests): junior (7-12), senior (13 & older)

Scouts: classification by 2020-21 grade in school

Awards
Awards will be given out during the AWARDS PROGRAM, Sun., July 11 following the Fashion Revue

THANK YOU, DONORS, for your great support!!

Jewell County Coloring Contest
☐ Contest entries DUE by Thursday, July 1 to the Mankato Extension Office.
☐ All entries to be displayed in the Quonset during county fair.
☐ Prizes awarded to three entries per age division. Prize will be credit at the food stand and must be used in the year awarded.
☐ Entries/awards must be picked up on July 11, Sunday between 2-4 p.m. at the fair office.

Special Food Contests and Awards
Winning exhibit presented to recipient by exhibitor at 6 p.m. Fashion Revue on Sun, 7/11
◆ Cookie Jar presented to Co Commissioners: Steve Greene, Mark Fleming, Keith Roe
◆ Cookie Tin presented to County Fair Treasurer: Lesa Peroutek

Jewell County Fair - Theme and T-Shirts
Jewell County Fair
Small Town Throwdown!

Information and materials (cards, labels, photo mat) available at:
Post Rock Extension District - Mankato Office
307 N Commercial in Mankato
785-378-3174
jw@listserv.ksu.edu

County Youth Organizations
Jewell County 4-H Council: Jacob Underwood, president
Rock Hills FFA: Karrigan Dunstan, president
Advisor: Jenna Langer
Mankato Eager Beavers (MEB): Elaine Cockroft, president
Leaders: Karen Cockroft, LaRae Colson, Kristin Underwood
Webber Wide Awake (WWA): Lenden Worm, president
Leaders: Sara Fuller, Jillian Worm

ALL CHARGE ACCOUNTS must be PAID by MONDAY, JULY 12th.

4-H Council Food Stand Work Shifts
per shift minimum: 4 adults & 4 youth

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Food stand manager is Barb Railsback & Katie Reinert.
2021 JEWELL COUNTY FAIR
Small Town Throwdown!

Jewell County Fairgrounds – 807 N High – Mankato – 785-378-3623

Monday, June 28 at fairgrounds
6:00 p.m. Fairgrounds clean-up / set-up

Thursday, July 1 DUE to the ext. office
  • All 4-H fashion revue scripts, cost sheets & entry cards
  • Poultry & Pets registered

Tuesday, July 6 at Mankato Community Center
8:30 a.m. Open class quilt check-in
9:00 Open class quilts judging
10:00 4-H photography judging
       Open class foods judging
1:30 4-H fiber arts judging
       (crochet, knitting, quilting)
       4-H clothing judging
       (all constructed & purchased garments)
       4-H Fashion Revue
       4-H foods judging
2:00 Bake Sale (open class & 4-H) at south entrance
5:00 Superintendents meeting at fairgrounds
       (4-H, open class, scouts)

Thursday, July 8
10:00 Horse Show - horse arena
       Horse Show Speed Events - horse arena
6:00 p.m. Exhibits check-in - Quonset
7:00 p.m. Animal check-in / Veterinary animal health inspections

6:00 p.m. Chuck Wagon Supper, purchase tickets ahead
7:00 Ranch Rodeo - horse arena
8:30 Jackpot Barrel Racing - horse arena

Saturday, July 10 at fairgrounds
8:00 a.m. Swine Show - covered arena
       Sheep/Goat Show - covered arena
       (30 minutes after completion of swine)
2:00 p.m. Round Robin Showmanship Contest
4:00-7:00 Bouncy House/Water Slides
       Jousting or Climbing Wall for older youth
4:30 Catch-an-Animal
5:00 Pedal Tractor Pull (registration at 4:15)
7:00 Ag Olympics
8:00 Beer Garden & Dance - covered arena

Sunday, July 11 at fairgrounds
12:30 p.m. Livestock Judging Contest – Jewell County 4-H & FFA only
2:00 Animal exhibits released
2:00-4:00 Fun Swim – Mankato Swimming Pool
4:30-5:30 Quonset exhibits released
6:00 Public Fashion Revue – Sale Barn
       Awards Program – Sale Barn
7:00 Livestock Premium Sale - Sale Barn
       Order: swine, beef, goats, poultry, rabbits, sheep

Monday, July 12 at fairgrounds
6-8:00 p.m. Buildings, grounds clean-up