Three Days of Fun-Filled Entertainment for the Whole Family!

The members of the Mitchell County Fair Board extend an invitation to you to exhibit your livestock, garden produce, baked and hand-made goods, and so much more in the Mitchell County Fair July 23-25, 2020.

We hope everyone will come and support our County Fair, 4-H and FFA youth, and Open Class Exhibitors of our communities. Come be part of the fun!

On behalf of the Mitchell County Fair Board, we thank you for your continued support.

Doug Devore, President
Dan Emmott, Vice President
Kendall Hostler, Secretary
Amy Eilert
Amanda McGuire
Charlie Mears
Francis McCune
Jake Rutlage
Jeff Holling
JR Staley
Lori Schmitt
Michelle Kadel
Mike Jones
Spencer Pearson
Vicki Jackson

Follow the Mitchell County Fair Facebook page to receive additional details.
Contact the fair board at: mitchellcofairboard@yahoo.com | 308.390.2607

4-H is a program of K-State Research and Extension. For information on the fair or joining a club, contact Post Rock Extension, Beloit Office at 785.738.3597

WE ARE CVA

It doesn’t matter what you want to do, if you do a good job doing it and give back to whatever community you’re in, that’s what life is about.

- Allen Eilert, Eilert Farms

Follow Allen’s story at cvacoop.com/wearecva to see how CVA and our producers are Growing Agriculture Together.
2020 Mitchell County Fair Schedule

Tuesday, July 7th (Beloit First Christian Church)
8-11:00 am Judging of Clothing Construction & Fiber Arts Judging of Fashion Revue Construction & Buymanship—Virtual Fashion Revue will be on the 4-H Facebook Page

Monday, July 20th (Beloit First Christian Church)
9:00 am Judging of 4-H Arts and Crafts Judging of 4-H Foods

Tuesday, July 21st
8:00 am Post Rock District Dog Show (Osborne Fair Grounds)
2:00 pm Mitchell County 4-H Pet Show (4-H Building)

Wednesday, July 22nd
9:00 am 4-H can enter any exhibits in the 4-H Building
9:00 am Horse Show
9:30 am Judging of 4-H Photography
10:00 am Judging of 4-H Horticulture, Flowers, & Crops
6:00 pm - 8:00 pm Livestock Check In/Open Class Check In

Thursday, July 23rd
8-9:30 am Enter All 4-H remaining exhibits to be judged
9:30 am Judging of 4-H Spacetech, Judging of 4-H Woodworking, Electric, Welding, Entomology & Geology
10:00 am Judging of 4-H Rabbit Posters, Poultry
Judging of Open Class Poultry Posters Judging of 4-H Posters, Notebooks, Banners, Food Displays
10:30 am Judging 4-H Bucket Calf
1:00 pm Judging of Open Class Arts & Crafts
Judging of Open Class Foods Judging of Open Class Flowers Judging of Open Class Photography Judging of Open Class Clothing & Quilts
2:30 Judging of Open Class Garden
6:00 Laser Tag Opens
6:00 4-H Beef Show
6:00 Creature Feature
7:00 Talking Tombstones
7:00 Circus Act
8:00 Marissa Budke
9:00 Landon Eilert

Friday, July 24th
9:00 Judging 4-H Swine, following swine will be 4-H Sheep & Goats
2:00 Circus Act
4:00 Circus Act
5:30 Jayden Rosebaugh
6:00 Laser Tag Opens
6:00 Circus Act
6:30 NCK Dancers
7:00 Wade Richard
8:00 Kaylee McGuire
8:00 Circus Act
9:00 Cassie Patterson
5:00 pm - 8:00 Beloit FFA Cow Pie Bingo tickets available
6:00 pm - 8:00 Beloit FFA Hayrack Rides

Saturday, July 25th
9:00 am Round Robin
12:00 Horseshow Tournament $10/person, draw for a partner at start time, 32 teams to sign up please call 308-390-2607
12:00 Cornhole Tournament $20/team, 32 Teams to sign up please contact the Beloit FFA chapter at 785-220-5679
1:00 Kansas Mud Racing—10 classes visit kmro.net for rules and class information
1:30 pm Kids Pedal Tractor Pull - Qualify for State Fair
5:00 pm 4-H & FFA Livestock Premium Sale
6:00 pm Laser Tag Opens
6:00—10 Open Mic Night on the Free Stage featuring John Pearson, Anthony May, Cassie Patterson & Francis McCune

Sunday, July 26th
8:00 am—12:00 pm Check Out Exhibits & Clean Up

A Special Thank You to the 2020 Activity Sponsors for the Mitchell County Fair:
Beloit Buick GMC ~ Landoll Corporation ~ Solomon Valley Vet ~ Winkel Manufacturing
Free Stage Entertainment * ALL Three Nights

Laser Tag * Open ALL Three Nights

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**THURSDAY NIGHT**

**Circus Act**  
Show Time 7:00

**Creature Feature**  
Show Time 6:00

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**FRIDAY NIGHT**

**Antique Tractor Pull**  
Show Time 6:00

**Circus Act**  
Show Times 6:00 & 8:00

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**SATURDAY**

**Kansas Mud Runs**  
‘Local Entries Encouraged’  
**Pit Opens** 11:00  
**Run Time** 1:00  
Admission  
$10 9 & UP | 8 & Under Free  
10 classes | kmro.net for rules & regulations

**Cornhole Tournament**  
**Start Time:** 12:00 pm  
$20/team | 32 Teams  
To Sign Up Contact Beloit High FFA  785.220.5679

**KIDS PEDAL PULL**  
**Registration** 1:30  
**Pull Starts** 2:00  
9 Classes, Ages 4-12  
No Entry Fee or Admission  
1st, 2nd, 3rd Place Winners from each group will qualify to pull at Kansas State Fair in September

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Funnel Cakes - Texas Red BBQ - Tacos

Snow Cones - 4-H Food Stand - Hangries Food Truck
Mitchell County Fair Rules and Regulations

General

• Competition for premiums are open to residents of Mitchell County and adjoining counties
• For each open class entry, enter into a cash prize drawing
• Premiums for open class will be paid at check out on Sunday
• All possible care shall be taken of the stock or articles for exhibition or otherwise brought upon the grounds, the Fair Association will not be responsible for any loss, injury, or damage that may occur
• All Exhibits at the fairgrounds will be released Sunday from 8am – 11:30am.
• In case of inclement weather, the program may be changed
• Any persons misrepresenting the entry of an animal or article will forfeit the premium and will be excluded from competition
• All buildings will be open from 8am – 10pm, unless otherwise noted
• Any exhibitor, who is found to have tampered with any exhibit or inhumanely abuses an animal, will be banned from fair participation and must forfeit any premium, ribbon or prizes won
• Warning: under Kansas law, there is no liability for an injury to or the death of participant in domestic animal activities resulting from the inherent risks of domestic animal activity. K.S.A. 60-4001 through 60-4004.

Non – Livestock

• Non – Livestock entries do not need to be pre-entered, entry cards are available at the extension office and will be available at check in
• Check in for open will be Wednesday, July 22nd from 6-8pm or Thursday July 23rd from 8-10am

Livestock

• All livestock must be pre-entered and must have paid stall rent, $1.00/head, at the Mitchell County Extension office two weeks prior to fair, ear tag numbers/tattoos must be declared
• All Livestock exhibits must be checked in at the fair Wednesday July 22nd between 6-8pm
• Animals with ringworm, warts, or mange are not to be shown and may be sent home
• Exhibitors are required to keep their stalls open from 10am until one hour after the close of grandstand entertainment
• Animals entered for exhibition will be subject to inspection of competent veterinarian See Animal Department Health Rules
• Keeping stalls and pens clean is the responsibility of the exhibitor. Failure to comply with this may result in withdrawal of premiums
• No drugs of any kind will be administered to animals on the fairgrounds without the approval and observation by a veterinarian, if given withdrawal times must be followed
• No straw will be provided, each exhibitor will provide their own. There will be a designated waste area
• Steers/Heifers must be owned and managed 140 days prior to fair
• Sheep/Goats/Swine/Bucket Calves must be owned and managed 70 days prior to the fair
• All market animals must be identified with a 4-H ear tag, Breeding animals must have a form of ID and/or proof of ownership
• 4-H exhibitors MUST show their own animal for showmanship, which has also been shown in its respective confirmation class. NO EXCEPTIONS
Animal Health Requirements
These apply to all livestock, open, FFA, & 4-H Classes, entered in the fair.

Kansas Livestock
General Requirements

• There will be a veterinarian present at check in and will issue an official health certificate
• All animals need to be individually identified by tattoo, ear-tag, reg. number, or breed association ear notch for swine
• Animals shall be free of signs of infectious or contagious disease
• All animals are subject to examination by exhibition staff or their representative
• All required tests must have been conducted in state-approved laboratory

Cattle & Bison
The Kansas Animal Health Department (KAHD) requires no test on cattle and bison of Kansas origin. Cattle determined by exhibition staff to have lesions of ringworm, warts or infested with mange will not be permitted to exhibit.

Swine
Swine originating in Kansas must meet the general requirements. Kansas has obtained Stage V statute in the National Pseudorabies Program and the state is classified free of swine brucellosis.
A negative pseudorabies and brucellosis test are not required for Kansas origin swine.

Sheep
Must be free of any signs of “sore mouth”, fungal infection (ringworm), including club lamb fungus
ALL sheep much be identified with an official USDA premises ID tag (scrapie tag)

Goats
Goats determined by exhibition staff to have sore mouth, lesions of ringworm, warts or infested with mange will not be permitted to exhibit
All goats must be identified with a registered tattoo or an official USDA premises ID tag (scrapie tag)

Horses
Evidence of a negative equine infectious anemia test conducted within 12 months of the show must accompany the certificate of veterinary inspection. Test results must be shown on a VS 10-11 form (copies will not be accepted unless verified in writing by testing veterinarian). Foals, six months of age and younger, accompanying their negative dams, are exempt from EIA test requirements.
A valid “horse passport” may be used in lieu of a certificate of veterinary inspection. If a passport is used, a negative EIA test within 6 months is required

Poultry
Due to a nationwide shortage of antigen needed to conduct pullorum-typhoid testing in poultry, the Kansas Department of Agriculture Division of Animal Health is waiving certain poultry testing requirements. As a result, poultry owners do not need to test their birds for the pullorum disease while the waiver is in effect.

Rabbits
Due to the presence of Rabbit Hemorrhagic Disease (RHDV2) in neighboring states, the Kansas Department of Agriculture’s Division of Animal Health recommends that rabbit shows and events be held by poster exhibits or by virtual means at this time.
No live rabbits are allowed on-site.
Open Class

Department A
Cattle
See livestock rules and regulations and animal health requirements for further information

All breeds of beef cattle may be shown
A veterinarian will be present to check cattle at weigh-in
Every animal competing for prizes must be owned by the exhibitor and entered accordingly
Champions will be chosen from the first prize winner in the individual classes at the judge’s discretion

Grand Champion Heifer $10
Grand Champion Steer $10
Blue $10, Red $7, White $5

The following classification and premiums will apply to all recognized breeds of beef

Breeding Heifer
Market Heifer
Market Steer
Cow/Calf
Bucket Calf Born Jan 1st – May 31st

Department B
Swine
See livestock rules and regulations and animal health requirements for further information

Hogs must load and unload on the west of the hog/sheep barn

Grand Champion Market $5
Grand Champion Gilt $5
Blue $5, Red $4, White $3

The following classifications and premiums will apply to all recognized breeds of swine

Breeding Gilts
Market Hogs

Department C
Sheep
See livestock rules and regulations and animal health requirements for further information

Sheep must load and unload on the west end of the hog/sheep barn
Champions will be chosen from the first prize winner in the individual classes at the judge’s discretion

Grand Champion Ewe $5

Department D
Goats
See livestock rules and regulations and animal health requirements for further information

Grand Champion Market Lamb $5
Blue $5, Red $4, White $3

The following classification and premiums will apply to all recognized breeds of sheep

Ewes
Market Lamb

Department E
Poultry

Poultry Classes
See livestock rules and regulations and animal health requirements for further information

Birds showing signs of disease will be excluded from the show building
Stock must be entered in the actual name of the owner
It is the responsibility of all poultry exhibitors, except waterfowl, to show proof that they are pullorum typhoid clean prior to the fair

Champion Poultry Exhibit $5
Blue $5, Red $3, White $2

Hen
Pullet
Cock
Cockerel
Broilers – Pen of 3
Pair of Turkeys
Pair of Geese
Pair of Ducks
Pair Pigeons
Pair Guineas
Display of single bird
**Department F**

**Agronomy**

All products in this department must have been grown by the exhibitor

Where possible exhibitor should select the most mature product

Each exhibit must be clean and free of weed seed

Unless otherwise stated entry should be in a 1-gallon glass jar

Grains & Field Crops

1. Wheat – Hard Red Winter Wheat
2. Barley
3. Rye
4. Oats
5. Soybeans
6. Lupine Beans
7. Largest Sunflower

Grasses & Legume Seed

8. Alfalfa
9. Sweet Clover
10. Brome Grass
11. Other Tame or Native Grass
12. Sedan Grass

Corn (5 Ears)

13. White
14. Yellow
15. Popcorn
16. Sweet Corn

Sorghum

17. Grain Sorghum (5 Heads)
18. Forage Sorghum (5 Stalks)

Hay & Grass (1/2 Bale)

19. Sudan
20. Prairie
21. Brome
22. Alfalfa

**Department G**

**Garden Produce**

All Products in this department must have been grown by the exhibitor

Where possible exhibitor should select the most mature product

Awards will be given by age division

A. Preschool Less than 6 years of age
B. Youth 6-12 years of age
C. Intermediate 13-18 years of age
D. Adult 19 & Up
E. Special Individual

Awards – $5 Each

Champion Vegetable, Champion Fruit

Potatoes (4)

1. White
2. Red
3. Sweet

Onion (4)

4. Yellow
5. White
6. Purple

Tomatoes (4)

7. Standard
8. Preserving
9. Small
10. Heirloom
11. Largest

Peppers (4)

12. Banana
13. Bell
14. Jalapeno
15. Other
Squash (1)
16. Gourds
17. Zucchini
18. Summer
19. Winter
20. Beets (4)
21. Cabbage (Head)
22. Carrots (4)
23. Parsnips (4)
24. Pumpkin
25. Watermelon
26. Cantaloupe
27. Cucumber (4)
28. Eggplant (1)
29. Green Beans (12)
30. Rhubarb (4)
31. Okra (6)
32. Garlic (4)
33. Apples/Pears (4)
34. Cherries/Plums (4)
35. Peaches (4)

All entries must be on a paper plate or cardboard in a clear plastic bag, except pies.

All entries must be homemade (no box mixes) and the work of the person entering.

Angel food and chiffon cakes should be turned right side up and crumbs should be left on cake.

Only non-perishable food items will be allowed.

Judges have the right to refuse to taste food which they feel has not been handled properly.

All entries will be sold at bake sale, unless specified otherwise.

Awards - $5 Each Best Yeast Bread, Best Cookies, Best Cake, Best Candy, Best preserved Product, Best Jam or Jelly, Best Pie

**Decorated Cookie Jar** - $25, $15, $10
Assorted cookies in a 1-gallon clear glass wide mouth attractively decorated jar.

Cookies should be visible through at least 50% of the jar.
Jar must be filled with at least 6, no more than 12 different kinds of cookies from different batters and dough.

Each cookie should be wrapped individually in clear plastic wrap, bring one of each kind in covered flat box with each cookie individually identified so the judges will not need to open the jar.

Boxes of cookies will be sold at the bake sale.

Beloit Auto & Truck Plaza will “STEER” you in the right direction!

**Beloit Auto & Truck Plaza**
**Ford-Chrysler-Dodge-Jeep**
Main & Hwy. 24 Beloit, KS
1-800-748-8408
www.beloitautotruck.com
Breads & Rolls
1. White Yeast Bread
2. Whole Wheat Yeast Bread
3. Quick bread
4. Whole Wheat Parker House Rolls (4)
5. Cinnamon Rolls (4)
6. Whole Wheat Cinnamon Rolls (4)
7. Coffee Cake
8. Muffins (4)
9. Whole Wheat Muffins (4)
10. Biscuits (4)
11. Tea Rings
12. Specialty Bread
13. Miscellaneous Yeast Cakes (Unfrosted)
14. Chocolate
15. White
16. Angel Food
17. Chiffon
18. Bundt
19. Sponge
20. Miscellaneous Unfrosted Cakes
21. Chocolate
22. White
23. Miscellaneous Frosted Cakes
Canned Fruit, Vegetables & Jelly
Canned Fruit, Vegetables & Jelly
All exhibits must have been made within the last 12 months


Open kettle processed food will not be accepted.

Pickles and sweet spread must be finished using the water bath process.

Low acid products must be pressure processed properly for the altitude residence.

The label, which can be found at the Mitchell County Extension Office, must include canning methods, process time, and amount of pressure when pressure canning.

Exhibits must be sealed in non-decorated, clean standard canning jars with matching brand lids (use Ball lids on Ball jars)

Jelly must be in ½ or full pint jars. All other products must be in pint or quart jars.

Each jar exhibited must be labelled with uniform labels placed one inch from the base of the jar.

You may also attach an index card no larger than 3x5 with the entry form to give the judge any information which you think would be helpful for the judge to know

Fruit
40. Apricots
41. Apples
42. Sour cherries
43. Peaches
44. Pears
45. Bing cherries
46. Applesauce
47. Other sauce
48. Other fruit

Vegetables
49. Tomatoes (canned in juice)
50. Cherry Tomatoes
51. Beans, Green
52. Corn
53. Peas
54. Beets
55. Beans, Yellow
56. Carrots
57. Other

Pickles & Relishes
58. Beets
59. Dill
60. Bread & Butter
61. Cucumber (sweet)
62. Relish
63. Spices cucumber Rings
64. Salsa
65. Other
Jelly
66. Apple
67. Plum
68. Grape
69. Berry
70. Tomato Preserves
71. Choke Cherry
72. Collection (3)
73. Other

Jam
74. Apple
75. Plum
76. Grape
77. Peach
78. Apricot
79. Strawberry
80. Other

Other
81. Eggs
82. Meats
83. Dried Fruit
84. Dried Vegetable
85. Canned Sauce
86. Canned Soup
87. Bakes Microwave Product

Junior Division
18 & Under
See Adult Division for general rules

Awards - $5 Each –
Best Cookie, Best Candy, Best Cake, Best Bread, Best Pie

Bread & Rolls
88. White Yeast Bread
89. Whole Wheat Yeast Bread
90. Quick bread
91. Whole Wheat Parker House Rolls (4)
92. Cinnamon Rolls (4)
93. Whole Wheat Cinnamon Rolls (4)
94. Coffee Cake
95. Muffins (4)
96. Whole Wheat Muffins (4)
97. Biscuits (4)
98. Tea Rings
99. Specialty Bread
100. Miscellaneous Yeast

Cakes (Unfrosted)
101. Angel Food
102. Chocolate
103. White
104. Miscellaneous Unfrosted

Cake (Frosted)
105. Chocolate
106. White
107. Miscellaneous Frosted

Cupcakes
108. Frosted (4)
109. Unfrosted (4)

Candy
110. Chocolate Fudge (4)
111. Peanut Butter Fudge (4)
112. Collection (3)
113. Peanut Brittle
114. Miscellaneous (4)

Cookies (4)
115. Oatmeal
116. Sugar
117. Ginger
118. Icebox
119. Brownies
120. Chocolate Chip
121. Peanut Butter
122. No Bake
123. Whole Wheat
124. Snickerdoodles
125. Chocolate
126. Miscellaneous

Other
127. Eggs
128. Canned Salsa
129. Canned Fruit
130. Canned Vegetables
131. Baked Microwave Product
132. Jam or Jelly
133. 2 Crust Pie
134. Tart

Department I

Textile Fabrics

No premiums will be awarded to any entry that has previously been awarded

All articles must be the handwork of the exhibitor

Awards will be given by age division

A. Preschool Less than 6 years of age
B. Youth 6-12 years of age
C. Intermediate 13-19 years of age
D. Adult 19 & Up
E. Special Individuals

One Grand Champion and One Reserve Champion will be chosen for the department per age group at the judge’s discretion
Needlework
901 A
902 B
903 C
904 D
905 E

Crochet/Knitting
906 A
907 B
908 C
909 D
910 E

Sewn Items
911 A
912 B
913 C
914 D
915 E

Quilting
916 A
917 B
918 C
919 D
920 E

Hand Quilting
921 A
922 B
923 C
924 D
925 E

Other
926 A
927 B
928 C
929 D
930 E

Best Garden Flowers $5
Best of Show $5
Best Fair Garden $5

Arrangements
1. Winter arrangement using dried materials
2. Wild Flower arrangement
3. Miniature arrangement of tiny fresh flowers less than 1” diameter
4. Holiday Theme
5. Garden arrangement large flowers - 18” Max
6. Garden arrangement low vase - 6” Max
7. Garden arrangement for dining table center piece - 9” Max
8. Garden arrangement tall vase - 30” Max
9. Arrangement of roses
10. Arrangement of flowers using a kitchen utensil for a container
11. Any other arrangement

Special Cut Flowers
Number following the plant indicates the number of STEMS not flowers
12. Annuals – Collection 3 kinds
13. Aster – 3
14. Canna
15. Cockscomb, plumed
16. Cockscomb, crested
17. coneflower
18. Cosmos - 3
19. Daisy – 3
20. Day lily
21. Everlasting -3
22. Flowering Shrub or vine, named
23. Gaillardia -3
24. Gladiolus
25. Hibiscus
26. Lily (other than day lily)
27. Marigold, small – 3
28. Marigold, large
29. Petunia, single – 3
30. Petunia, double – 3
31. Perennials – Collection 3 kinds
32. Phlox, annual – 3
33. Phlox, perennial
34. Rose – Hybrid Tea Rose
35. Rose – Grandflora
36. Rose – Floribunda – 3
37. Salvia
38. Snapdragons, Large
39. Snapdragons, Small – 3
40. Sunflower, Small
41. Sunflower, Large
42. Wildflower, named
43. Zinnia, Large
44. Zinnia, small – 3

Department J
Flowers

Exhibits will furnish all equipment and containers necessary to display, the fair association will not be responsible for any loss or breakage

All entries must be grown and arranged by the exhibitor

No extra foliage may be added

Numbers along side indicate the number of STEMS not flowers

Best House Plant $5
Best Arrangement $5
45. Unusual Plant, Named
46. Other Annual, Large, Named
47. Other Perennial, Named
48. Any Herb – 3 stems
49. Any Herb, 3 Varieties, 1 stem each variety

Grasses
50. Native, 3 Stems
51. Ornamental, with bloom – 3 Stems
52. Ornamental, w/o bloom – 3 stems
53. Arrangement of grasses

Houseplants
54. Begonia, wax
55. Begonia, other
56. Cactus
57. Cacti, 3+ varieties
58. Hanging basket, named
59. Houseplant for foliage, named
60. Houseplant in bloom, named
61. Fern
62. Ivy Plant, named
63. Novelty, named
64. Potted plant, any variety
65. Shade loving plant, named
66. Succulent
67. Any other houseplant

Garden Plant, Potted
68. Canna
69. Coleus
70. Container Garden
71. Fairy Garden
72. French Garden, 5 varieties
73. Geranium
74. Petunias

Junior Division
Best Arrangement $5
Best Garden Flower $5
75. Coneflower
76. Marigold, Large
77. Marigold, Small
78. Petunia, Single
79. Petunia, Double
80. Shasta Daisy
81. Sunflower
82. Zinnia, Large
83. Zinnia, Small
84. Any herb
85. Any other Flower
86. Fairy Garden

Subject matter must be the work of the exhibitor and not previously received prizes

Frames/Mounting

EVERY ENTRY MUST BE ABLE TO HANG

All drawings and watercolors must be matted for display and securely mounted with hanging hooks
Pictures in frames or on stretchers must have wire or eyes in place for hanging
Ornate frames will not be accepted nor will pictures measuring more than 48 inches in either dimension
The Fair Association will not be responsible or accountable for loss or damage

Awards will be given by age division
  A. Preschool Less than 6 years of age
  B. Youth 6-12 years of age
  C. Intermediate 13-18 years of age
  D. Adult 19 & Up
  E. Special Individual

Best of Show in each age division $5/each

Oil
1101 A
1102 B
1103 C
1104 D
1105 E

Drawing
1106 A
1107 B
1108 C
1109 D
1110 E

Acrylic
1111 A
1112 B
1113 C
1114 D
1115 E

Pastel
1116 A
1117 B
1118 C
1119 D
1120 E

Watercolor
1121 A
1122 B
1123 C

Department K
Fine Arts
Department L
Photography

All photos must between 7x9 and 8x10 in size
They are to be mounted across the narrow dimension of an 11x12 ½ sheet of white or cream studio mount. Mat boards can be purchased at the Extension Office.

Foam core mounts and glass frames will be rejected.
The photo must be 1” below the top of the mount, the sides must be equal distance on each side.

It's highly recommended to use spray adhesive on the whitest and smoothest side of the matte board

Awards will be given by age division

A. Preschool Less than 6 years of age
B. Youth 6-12 years of age
C. Intermediate 13-18 years of age
D. Adult 19 & Up
E. Special Individuals

Best of Show in each age division $5/each

Animal/Nature/Landscape – Color

1200 A
1201 B
1202 C
1203 D
1204 E

Animal/Nature/Landscape – Black and White

1205 A
1206 B
1207 C
1208 D
1209 E

Still-life/Figure/Portrait – Color

1210 A
1211 B
1212 C

1213 D
1214 E

Still-life/Figure/Portrait – Black and White

1215 A
1216 B
1217 C
1218 D
1219 E

Photo Journalism – Color

1220 A
1221 B
1222 C
1223 D
1224 E

Photo Journalism – Black and White

1225 A
1226 B
1227 C
1228 D
1229 E

Other – Color

1230 A
1231 B
1232 C
1233 D
1234 E

Department M
Crafts

No premium will be awarded to any article in which a premium has previously been awarded

All articles must be the handwork of the exhibitor
Awards will be given by age division

<table>
<thead>
<tr>
<th>Division</th>
<th>Subdivision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preschool</td>
<td>Less than 6 years of age</td>
</tr>
<tr>
<td>Youth</td>
<td>6-12 years of age</td>
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<tr>
<td>Intermediate</td>
<td>13-18 years of age</td>
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<tr>
<td>Adult</td>
<td>19 &amp; Up</td>
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<tr>
<td>Special Individuals</td>
<td></td>
</tr>
</tbody>
</table>

Best of Show in each age division $5/each

Ceramics

- 1301 A
- 1302 B
- 1303 C
- 1304 D
- 1305 E

Handcrafts

- 1306 A
- 1307 B
- 1308 C
- 1309 D
- 1310 E

Legos

- 1311 A
- 1312 B
- 1313 C

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**Department N**

**Woodworking**

Wood work MUST be accompanied by a plan original work or kit construction.

Awards will be given by age division

<table>
<thead>
<tr>
<th>Division</th>
<th>Subdivision</th>
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<tbody>
<tr>
<td>Preschool</td>
<td>Less than 6 years of age</td>
</tr>
<tr>
<td>Youth</td>
<td>6-12 years of age</td>
</tr>
<tr>
<td>Intermediate</td>
<td>13-18 years of age</td>
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<tr>
<td>Adult</td>
<td>19 &amp; Up</td>
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<tr>
<td>Special Individuals</td>
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One Grand Champion and One Reserve Champion will be chosen for the department per age group at the judge’s discretion.

Farm/Shop Use

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Proud Supporter of the Mitchell County Fair

Farmers and Merchants Bank

Member FDIC

Cawker City Kansas

785-781-4331
Welding

Awards will be given by age division

A. Preschool Less than 6 years of age
B. Youth 6-12 years of age
C. Intermediate 13-18 years of age
D. Adult 19 & Up
E. Special Individuals

One Grand Champion and One Reserve Champion will be chosen for the department per age group at the judge’s discretion

FFA Department

Superintendent: FFA Advisory

Exhibitor must be a member of the FFA Chapter at Beloit Jr/Sr High School

Any premium money awarded goes back to the Chapter

All entries will be done under the supervision of the FFA Advisor

FFA Farm Mechanic

1. Microproject valued at $99 or less
2. Small project valued at $100-$499
3. Intermediate Project valued at $499-$1499
4. Large Project valued at $1500 or more
5. Refurbished project

Livestock

Rules and Regulations for Open Class livestock apply to livestock in the FFA division

1. Breeding Heifers
2. Market Heifers
3. Market Steers
4. Breeding Gilts
5. Market Hogs
6. Ewes
7. Market Lambs
8. Horse, Barrels
9. Horse, Western Pleasure
10. Horse, Trail
4-H GROWS HERE
4-H Division

Location: 4-H Building on Fairgrounds
Superintendents: Cassie Homan, Caleigh Hewitt, Shannon Rogers

General Rules

1. Only 4-H members in Mitchell County are eligible to compete in this division. Members must be enrolled (and meet project requirements) in the project in which they exhibit.

2. All entries, except horses, cattle, hogs, sheep, goats, bucket calves, dogs and pets MUST complete a two-section green entry card and attach it to their exhibit when it is entered. No pre-entry is necessary.

3. All Horses, cattle, hogs, sheep, goats and bucket calves MUST be pre-entered by July 6th by completing the livestock entry form at the extension office, pen rent will be due at this time as well.

4. NO ANIMAL INSURANCE IS AVAILABLE THROUGH THE OFFICE. CONTACT YOUR PERSONAL INSURANCE COMPANY.

5. NOTE: All animals, beef, sheep, swine, and goats will check in at the north parking lot at the north end of the fairgrounds. The vet will be present to inspect all animals. You cannot unload your animals at the fairgrounds until you have been through the best inspection.

6. Check-in time is 8:00-10:30am on Wednesday, July 22nd OR Thursday, July 23rd, unless otherwise noted. Beef, bucket calves, sheep, swine, and goats MUST BE checked in on Wednesday evening, July 22nd between 6:00—8:00pm. All horses, sheep, and goats will unload and load on the WEST side of the sheep and hog barn.

7. Check-out for all exhibits is 8:00 - 11:30am on Sunday, July 24th. Exhibits may be checked out after 10:00pm Saturday evening. All exhibits must be checked out by an agent or superintendent. Any exhibits taken out earlier will forfeit their premium money, unless prior arrangements have been made with the Extension agent or superintendents.

8. 4-H exhibitors (individual or group) should avoid using copyrighted materials whenever possible by originating his/her own work. A 4-H member or group should use with caution copyrighted and/or trademarked product or service (brand name, label or product). The intent of using the copyrighted or trademark 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 copyrighted work for educational and other public interest purposes.

Regardless of the “Fair Use” provision, the inference that a specific name brand product is good or bad inherently or through comparison must be done cautiously, using acceptable research/comparison methods and have a disclaimer that the conclusions are those of the 4-H participant and not those of K-State Research and Extension.

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.

The use and inclusion of specific brand names for educational purposes does not imply endorsement or refusal by the Department of Extension 4-H Youth Programs, Kansas State University Agriculture Experiment Station and Cooperative Extension Service or the State of Kansas.

9. All ages are as of January 1, 2020.

Premiums

Exhibits will be rated as blue, red or white.
Blue - $2.50; Red - $2.00; and White - $1.75. Superior exhibits will receive a purple ribbon, but no additional premium will be paid. Premiums are not paid for showmanship-type classes.

State Fair Exhibits

4-Hers 9 years and older by 1/1/20 are eligible to exhibit at the State Fair, if an exhibit receives a purple ribbon, and there is an appropriate class at the State Fair. 4-H members are responsible to sign up their State Fair items by the end of the county fair.

Fashion Revue

1. Judging will be Tuesday, July 7th at the First Christian Church in Beloit. A public revue will not take place this year, 4-Hers are welcome to participate in a virtual revue that will be held on the Post Rock 4-H Facebook. Judging will be done by divisions. A schedule will be sent to participants with time assigned.

2. Pre-entries are due at the Extension Office on June 19th.

3. Members may model two outfits in the constructed garments revue.

4. Members may model two outfits in the Buymanship revue,
5. For Buymanship Revue majority of the outfit must be purchased (not borrowed) and modeled by the 4-Her. Contestants should use good sense in choosing items that are appropriate to be modeled publicly.

6. A picture of the model (both boys and girls), in the garment styled for judging, is to be presented to the judge at the time of judging. This picture will be displayed at the fair.

7. A Champion and Reserve Champion will be named for each division. An award will be presented to the overall girls Buymanship champion and the overall boys Buymanship champion.

8. No live animals may accompany participants; exceptions include service animals.

**CONSTRUCTED GARMENTS REVUE**

1001. Junior Division (7-9 years old as of 1/1/20). A constructed article, garment, or outfit.

1002. Intermediate Division (10-13 years old as of 1/1/20). A constructed article, garment, or outfit.

1003. Senior Division (14 & older as of 1/1/20). A constructed article, garment, or outfit.

**Girls Buymanship Revue**

**Juniors (9 years and under as of 1-1-20)**

1009. Formal (any length)

1010. Dress (dress or suit suitable for church or special school function)

1011. School/Casual (sweaters, slacks, skirts, jeans, jumpers, shorts)

1012. Active sportswear (tennis, jogging, spandex, sweats, windsuit)

**Intermediates (10-13 year olds as of 1-1-20)**

1013. Formal (any length)

1014. Dress (dress or suit suitable for church or special school function)

1015. School/Casual (sweaters, slacks, skirts, jeans, jumpers, shorts)

1016. Active sportswear (tennis, jogging, spandex, sweats, windsuit)

**Seniors (14 years and older as of 1-1-20)**

1017. Formal (any length)

1018. Dress (dress or suit suitable for church or special school function)

1019. School/Casual (sweaters, slacks, skirts, jeans, jumpers, shorts)

1020. Active sportswear (tennis, jogging, spandex, sweats, windsuit)

**Boys Buymanship Revue**

**Juniors (9 years and under as of 1-1-20)**

1021. Dress outfit (suit, dress pants, and sport coats)

1022. School/Casual (sweaters, slacks, jeans, jacket or shirt)

1023. Active sportswear (tennis, jogging, spandex, sweats, windsuit)

**Intermediates (10-13 year olds as of 1-1-20)**

1024. Dress outfit (suit, dress pants, and sport coats)

1025. School/Casual (sweaters, slacks, jeans, jacket or shirt)

1026. Active sportswear (tennis, jogging, spandex, sweats, windsuit)

**Seniors (14 years and older as of 1-1-20)**

1027. Dress outfit (suit, dress pants, and sport coats)

1028. School/Casual (sweaters, slacks, jeans, jacket or shirt)

1029. Active sportswear (tennis, jogging, spandex, sweats, windsuit)

**Clothing and Textiles Department**

1. Judging will be by consultation on Tuesday, July 7th, at the First Christian Church in Beloit. Judging will be from 8:00-11:00am. Come at your convenience, NO schedule is being made. Pre-entries are not required in clothing construction.

2. Two Garment or outfit entries per phase you are enrolled in and two article entries. Sewing boxes count as an article entry. For State Fair: one constructed piece and one educational exhibit.
3. Pre-cut kits are acceptable for all clothing classes. All articles/garments must be finished for use.

4. All entries must be exhibited at the County Fair. Check-in time is 8-9:30 am on July 23rd.

5. Educational Classes. Share with others what you learned in this project. Exhibits may be in the form of a poster, notebook, or display. If a poster, it must not be larger than 22" x 28". If a display, maximum size is not to exceed a standard commercial 3’x4’ tri-fold display. No card table displays are allowed. **Take care to select durable materials that will withstand State Fair conditions.** Name and county must be clearly marked on educational exhibits.

All Ages are exhibitors ages as of 1-1-20. Construction awards will be given according to levels: Junior: 7-9 years, Intermediate: 10-13 years, Senior: 14 and up

**Juniors 7-9 years of age**

1030. An article, garment, or outfit constructed by a 7-9 year old exhibitor enrolled in the Clothing and Textiles Project.

1031. Educational exhibit prepared by a 7-9 year old exhibitor enrolled in the Clothing and Textiles Project.

1032. Sewing Box (Should contain shears, scissors, thimble, needles, thread, tape measure, hem gauge, tailors chalk or marking pens, pins, small notebook, needle book, pin cushion).

1032a. 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, repurposing a clothing item for a new use, etc. Must include sewing of some kind. A 3" x 5" index card MUST accompany entry describing the recycled materials and how they were used in the item.

**Intermediate 10-13 years of age**

1033. An article, garment, or outfit constructed by a 10-13 year old exhibitor enrolled in the Clothing and Textiles Project.

1034. Educational exhibit prepared by a 10-13 year old exhibitor enrolled in the Clothing & Textiles project.

1035. 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, repurposing a clothing item for a new use, etc. Must include sewing of some kind. A 3" x 5" index card MUST accompany entry describing the recycled materials and how they were used in the item.

**Senior 14 years and older**

1035. An article, garment, or outfit constructed by a 14 & older exhibitor enrolled in the Clothing and Textiles project.

1036. Educational exhibit prepared by a 14 year & older exhibitor enrolled in the Clothing and Textiles Project.

1036a. 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, repurposing a clothing item for a new use, etc. Must include sewing of some kind. A 3" x 5" index card MUST accompany entry describing the recycled materials and how they were used in the item.

**Definitions**

**Article** - An item constructed in a clothing and textiles project that has been hand or machine sewn. To include, but not limited to: pin cushion, home décor (wall hanging, pillow or curtains), tote bag, travel bag, lingerie case, wearable fiber art to embroidery or applique on items made caps, hats, scarf.

**Garment**—skirt, vest, blouse, shirt, pair of slacks, dress, jumpsuit, coat, jumpsuit, etc.

**Outfit**—2 or more pieces that can be worn together at the same time, but not necessarily a complete outfit.

**3-piece coordinated outfit**—The third piece could be worn with one or both, but not necessarily at the same time, such as skirt, blouse and pants or 1 skirt and 2 blouses. All three must be made by the exhibitor, do not exhibit purchased items.

**Visual Arts Department**

1. Each 4-Her is limited to a total of three entries, per phase, in which they are enrolled.
2. All Exhibits which need to be hung **MUST** have a wire or saw tooth hanger attached (no string or tape) in order to be properly displayed. If the necessary hardware is not attached, it may not be displayed.

3. Judging will be by consultation beginning at 9am Monday, July 20th at the Beloit First Christian Church. You will sign in and be judged in that order. You must be signed in by 10am.

   **Junior Division (under 12 as of 1-1-20)**
   1048. Crafts
   1049. Sketching, Drawing, Painting
   1050. Carving
   1051. Ceramics: bisque
   1052. Ceramics: cleaned by 4-Her
   1053. Leather
   1054. Other Arts (thrown pottery, hand build pottery, sculpture, etc.)

   **Senior Division (12 & OVER AS OF 1-1-20)**
   1055. Crafts
   1056. Sketching, Drawing, Painting
   1057. Carving
   1058. Ceramics: bisque
   1059. Ceramics: cleaned by 4-Her
   1060. Leather
   1061. Other Arts (thrown pottery, hand built pottery, sculpture, etc.)

Three outstanding items will be selected for display at State Fair. A Champion and Reserve Champion will be selected for Arts and Crafts in each age division.

**Food & Nutrition Department**

An award will be presented to the overall champion Jr. & Sr food exhibit. Jr. Division—under 12 as of 1-1-20, Sr. Division—12 & older as of 1-1-20

A Rosette will be awarded to the Champion overall educational exhibit.

1. A member may take 3 baked products and one educational display in the foods division.
2. The entire product must be entered and uncut. Exhibit 3 cookies, 3 muffins, 3 breadsticks, etc.
3. Remove baked products, except pies, from pans and place on paper plates or cardboard. Each baked item must be in a plastic bag, disposable plastic containers or boxes. If it is an item such as a cake, or loaf of bread bring the whole item. **DO NOT BRING A BAKED ITEM IN THE PAN.** If a baked item is brought in a pan it will be lowered one placing. Pies must be in disposable pans.

4. Recipes are required for all food exhibits (except educational exhibits). These should be on an index card no larger than 3x5. Item will be lowered one ribbon placing if there is not a recipe with it.

5. **Food Gift Package or Specialty Food Product.** 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-Her, in a suitable container no larger than 18” x 18” x 18”. Prepared food items must have recipes attached with the entry. Additional home-made 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.

6. **Educational classes:** Exhibits may be in the form of a poster, notebook or display. If a poster, it must not be larger than 22” x 28”. If a display, it should not exceed a standard commercial 3’x4’ tri-fold display board. No card table displays are allowed. **NOTE:** A collection of your favorite recipes in a recipe box does not constitute an educational exhibit. **Take care to select materials that will withstand State Fair conditions.** Name must be clearly marked on educational exhibits.

7. **ONLY NON-PERISHABLE FOOD ITEMS WILL BE ALLOWED!!** Judges have the right to refuse to taste food which they feel has not been handled properly. Fruit and pecan pies are acceptable.

8. For food safety purposes, any food with custard and dairy based fillings and frostings (ex. cream cheese), raw eggs, flavored oils, “canned” bread or cakes in a jar, cut fresh fruit or any food requiring refrigeration (ex. bacon) or un-baked exhibit with raw flour (ex. no bake cookies) will be disqualified and not judged. Refer to K-State Research and Extension publication 4-H888, Judge’s Guide for Food and Nutrition Exhibits, for information to help make informed, safe food exhibit decisions.

9. All unfrosted cakes should be exhibited in an upright position with crust showing, except for those cakes made with special designs such as bundt cakes. They should have top crust side down.

10. Judging will be by consultation, beginning at 9am at the Beloit First Christian Church on Monday, July 20th. You will sign in and be judged in that order. You must be signed in
by 11am.

11. **2010 New Ruling: Decorated special event cakes will no longer be accepted for exhibit.**

12. Alcohol is not allowed as an ingredient in food entries. They will be disqualified and not judged.

**Junior**

1070. For 7-9 year old exhibitors; a non perishable food product

1071. Educational exhibit prepared by 7-9 year olds. See size guidelines above

**Intermediate**

1073. For 10-13 year old exhibitors; a non-perishable food product.

1074. Educational Exhibit prepared by 10-13 year olds. See size guidelines above.

**Senior**

1076. For 14 Years & older exhibitors; non perishable food product.

1077. Educational Exhibit prepared by 14 years & older exhibitors. See guidelines above.

**Club Food Displays**

Each club will have a theme and display their foods as a club on the food display shelves. The number of shelves will be determined by the number of persons enrolled in the project.

Display shelves will be judged Thursday, July 23rd. Each will receive a ribbon placing. A Champion and Reserve Champion will be named.

Judging scorecard is:

Interest & Originality—50%
1. Original, unusual method of display
2. Holds interest of people
3. Has one central theme
4. Has an educational message

Appearance—40%
1. Neat, artistic and attractive
2. Can be read & viewed at a distance
3. Names and placing of each 4-Her legible
4. Colors coordinate

Quality of Display Materials—10%

1079. Club Food Display

**Food Preservation**

1. Exhibits must have been preserved since the member’s previous year’s county fair, and not been exhibited at the previous State Fair. Example: For fair date August 15, 2018 items canned following that date can be exhibited at this year’s fair.

2. 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, over 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](http://nchfp.uga.edu/publications/nchfp/factsheets/electric_cookers.html). Untested recipes will be disqualified for food safety reasons.

Recipe resources include:

- K-State Research and 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
- All New Ball Book of Canning and Preserving
- Canning mixes (i.e. Mrs. Wage’s, Ball)
- Pectin manufacturers (i.e. SureJell, Ball)
- [http://www.rrc.k-state.edu/preservation/recipes.html](http://www.rrc.k-state.edu/preservation/recipes.html)
- Refer to following K-State Research and Extension publications for more information:

Home Environment Department

Home Environment projects must be displayed as listed in 1094-1096 during the fair in the 4-H building. A Champion and Reserve Champion will be named at the fair.

1. A summary including plans, explanation of how the item(s) was 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 exhibit.

2. Projects with missing or insufficient summary will be lowered one ribbon placing.

3. 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.

1095. 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.

1096. Notebook. Notebooks may include floor plans, swatches, colors, stories, photographs, and project records which detail the project process, 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 exhibit.

1094. Single exhibit. An article (furniture, fixtures, interior or exterior, etc.) made or refinished by the 4-Her for the home. Must include attached summary. NOTE: Refinished/repaired furniture is in this class at State Fair.
what was accomplished this year with a 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.

Fiber Arts

1. 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 art, or counted cross stitch). Ethnic Fiber 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.

2. Members may make 2 entries per class

3. Identification Label:
   a. Print on 3" x 2.5" piece of cloth: class number, 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 garment.

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

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

6. You should attach an index card, no larger than 4”x6”, with the entry form to give the judge any information on what parts of the exhibit you made, processes used, or other information which you think would be helpful for the judge. For all items please indicate if item was made from a kit. For knitted or crocheted items please indicate fiber content, and specifically if they are made of at least 90% wool.

7. You are expected to be enrolled in the Fiber Art project in which you enter. When the exhibit is a sewn garment that also includes one or more Fiber Art techniques (knitting, crochet, needle arts, or patchwork and quilting), the determination of what division (Clothing or Fiber Arts) and class in which to entered will be left to you.

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

9. There are no age specific classes in fiber arts. The exhibitor’s age and years in the project will be considered by judges.

10. Judging will be by consultation on Tuesday, July 7th from 8 -11am at the First Christian Church in Beloit. Come at your convenience.

1100. Crochet, an article, including felted items.

1101. Knitting, an article made either by hand or by knitting machine, including felted items.

1102. Needle Arts, an article created by hand using any of the following techniques: a) embroidery and cross-stitch; b) needlepoint; c) candle wicking; d) crewel; e) lacework; and or f) applique

1103. Patchwork or Quilted article - It is an acceptable practice for you to create the patchwork or quilted article and have someone else quilt it. (See #7)

1104. 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.

1105. Spinning, a skein - minimum 10 yards in length

1106. Weaving, a woven article -- you should attach information about the type of loom or process used (see #7)

1107. 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, a Swedish huck towel weaving, mud cloth, bobbin weaving, tatting, felted items that are not knitted or crocheted, etc. You should attach information on the history of the ethnic fiber art, where it was used, by whom how it was used, short description of the technique, etc (See #7)

1108. Macrame, an article

1109. Fiber Arts 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, accomplishments, successes, failures, and future plans. It may include samples of techniques, how tos, 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. follow copyright laws as explained in the General Rules as you are preparing your exhibit. Name, local unit and fiber art covered must be clearly marked in the notebook.

Horticulture and Field Crops

Field Crops

Field Crops will be displayed in the 4-H building. Check in Wednesday, July 22nd from 8:30-9:30am ONLY. All horticulture exhibits must be grown by exhibitor

2010. Corn, Yellow (10 ears), variety or hybrid must be named
2011. Corn, White (10 ears), variety or hybrid must be named
2012. Grain Sorghum, hybrid, hybrid must be named (10 heads)
2013. Forage Sorghum, hybrid, Exhibit to consist of the entire plant; no roots. Hybrid must be named (10 heads)
2014. Other forage sorghum; Exhibit to consist of entire plant; no roots. Variety must be named (10 stalks)
2015. Wheat, hard red winter, variety or hybrid must be named. (one gallon jar)
2016. Wheat, soft red winter, variety or hybrid must be named (one gallon jar)
2017. Wheat, hard white, variety or hybrid must be named (one gallon jar)
2018. Wheat, variety plot display (for 4-Hers enrolled in wheat variety plot project)
2019. Barley, variety named (one gallon jar)
2020. Edible field beans - one gallon sample of seed from most recent harvest
2021. Edible field beans - bundle of 5 plants with roots intact from most recent harvest
2022. Oats, variety named (one gallon jar)
2023. Soybeans, plants, from most recent harvest, variety named (5 plants)
2024. Soybeans, from most recent harvest, variety named (one gallon jar)
2025. Sunflowers, confectionery (3 heads)
2026. Sunflowers, confectionery seeds in jar (one gallon jar)
2027. Sunflowers, oil seed (3 heads)
2028. Sunflowers, oil seeds in jar (one gallon jar)
2029. Miscellaneous crops, one gallon jar of seeds or 10 heads from current project, variety named.
2030. Alfalfa, seed, variety named (one gallon jar)
2031. Brome grass seed (one gallon jar)
2032. Other tame grass seed (one gallon jar)
2033. Alfalfa hay, variety named (one flake or slice from a rectangular bale, or 10” section cut from a round bale. The flake or slice should be approximately 6” thick and tied in 2 directions)
2034. Grass Hay (10” flake or slice 6” think and tied in 2 directions)

Garden Crops

Check in Wednesday, July 22nd from 8:30-9:30am ONLY

On vegetable crop entries, varieties should be named if known. Shelled vegetables should not be shown. Choose vegetables that will hold up well during the fair. Avoid over ripe exhibits. You may enter up to 8 different exhibits, each a different vegetable, in classes 2042, 2043, 2044

2042. Small vegetable specimen plate (12) Ex: Green snap beans, yellow wax beans, English peas, other small vegetables
2043. Medium vegetable specimen plate (5) Ex: cucumbers, cherry tomatoes, tomatoes, beets, white onions, yellow
onions, red onions, bell peppers, other peppers, okra, parsnips, radishes, turnips, sweet potatoes, red potatoes, white or Russet potatoes, carrots, miniature pumpkins, decorative gourds or other medium vegetables.

2044. Large vegetable specimen plate (1) Ex: watermelon, summer squash, winter squash, large type pumpkin, eggplant, cabbage, cantaloupe, other large vegetable.

2045. Fresh Culinary herbs (6) Ex: parsley, basil, dill etc. Six stems (or comparable quantity) or ONE VARIETY of fresh herbs exhibited in a disposable container of water. Dried herbs are not accepted.

2046. Vegetable Garden Display. Each Exhibitor on this class will be limited to four square feet of space. Exhibit consist of five different fresh vegetables. Canned vegetables are not acceptable. Only one variety of each type of vegetable may be exhibited. The numbers of the five vegetables to be exhibited are as follows:

- Large vegetables, one each - cantaloupe, pumpkin, watermelon, eggplant, squash, cabbage, or similar size vegetable.
- Medium vegetables, five each - tomatoes, Irish potatoes, sweet potatoes, cucumbers, onions, parsnips, turnips, beets, okra, carrots, peppers, or similar size vegetables.
- Small vegetables, twelve each - green snap beans, yellow wax beans, etc.

**Flowers**

Check in Wednesday, July 22nd from 8:30-9:30am ONLY.

It is recommended that entries be in disposable containers (annuals and perennials in pop bottles, arrangements in disposable plastic, etc.), limited to one entry per class. If a non-disposable container is used, exhibitor is responsible for picking it up at the end of the show. Arrangements should not take over one square foot of table space. All materials (flowers) should be grown and collected rather than purchased.

2070. Annual Garden Flower, cut specimen, single stem
2071. Perennial Garden Flower, Cut Specimen, single stem
2072. Fresh flower arrangement
2073. Dried flower arrangement, no fabric or plastic material allowed
2074. Other Flowers
2075. Horticulture Notebook:
Entry shall consist of 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 helpful.

**Live Animal Department**

Read all general rules for the 4-H division and general health rules for open class. They apply for all 4-H divisions. If an exhibitor has more than two entries in one class they can receive assistance in showing them only from another 4-H member within the Post Rock District.

**Marketing Requirements For Livestock**

There will be no floor bids on cattle, swine, or sheep. 4-Hers are responsible for marketing their own animals. Only market animals can sell in the project sale, this includes market steers, market heifers, market lambs, market hogs, and market goats.

**4-H and FFA Livestock Dispersal Sale Policies**

1. Each 4-H and FFA member may send no more than two animals through the premium sale. The two animals must be different species (e.g. one lamb and one pig, one steer and one lamb, etc.). All youth must complete an “intent to sell” form and turn it into the superintendent of that species immediately following the completion of the show.
2. Cattle, goats, and sheep will be premium only. Hogs the floor bid will be open first and then the premium bid.
3. Two or more bids may combine to bid on a single animal, arrangements between firms are encouraged prior to the sale.

**Livestock Herdsmanship**

1. Open to 4-H Clubs and FFA Chapters showing beef, dairy, goats, horses, sheep, swine, or poultry at the fair.
2. The contest is designed to encourage clubs or chapters to keep their displays at the fair in a neat, and presentable manner.
3. The purpose is to maintain a more attractive livestock exhibit.
4. Contest starts on Thursday morning and ends Saturday night.
5. Results will be announced at the Achievement Ceremony.

6. An overall champion will be selected from these groups that exhibit at least three different species.

Judging Card for Herdsmanship, 100 pts

1. Cleanliness of Alley and Stall/Pens, 40
   a. Bedding adequate, bright, dry, clean and in place
   b. Manure hauled out and deposited in designated area
   c. Alleys swept clean, free of dust and straw
   d. Feed in front of animals ONLY at feeding time
   e. Watering points and drains kept clean

2. Arrangement of Exhibit, 10
   a. Exhibits lined up in attractive manner
   b. Big boxes out of the way
   c. Hay and straw neat and orderly
   d. Feed boxes and gear in area provided

3. Appearance of Animals, 25
   a. Animals clean and brushed
   b. Animals securely tied or penned (cattle with tie chains and halters)
   c. Animals in stalls or pens between 8am-7pm except when showing, grooming or washing

4. Stall Cards, 5
   a. Readable from the alley
   b. Neatly arranged
   c. Clean and complete

5. Exhibitor Conduct, 20
   a. Attitude and conduct in and around barns
   b. Conduct during show
   c. Be polite and no foul language

Total 100

Beef Cattle Division

1. Stall rent of $1.00 per head must be turned in with a livestock entry form to the Extension Office by Monday, July 6th.

2. Weigh-in will be from 6-8pm on Wednesday, July 22nd

3. Steers may be mouthed. Permanent incisor teeth cannot have erupted and all baby teeth must be present in order to show

4. “Last year’s bucket calf” classes (2087-2088) are for calves SHOWN as bucket calves in last year’s Mitchell County Fair. These calves may also enter their appropriate heifer/market steer class. No ribbon premiums will be given in classes 2087 and 2088

Bucket Calf Division

Check in will be on Wednesday, July 22nd from 6-8pm. Sand will be provided for bucket calf bedding. No straw or wood shavings needed.

Stall rent of $1.00 per head must be turned in with a livestock entry form by Monday, July 6th. Bucket Calves will be shown at halter, both conference and showmanship. For conference judging a completed Bucket Calf Record (available at the extension office) should be brought along for the judge to re-
view. The record will be turned in to the superintendent when the calf is checked in on Wednesday evening. The champion bucket calf in each age division will receive an award.

Grooming suggestions: 7-9 year old and tag-a-longs: calves should be clean. Clipping can only be done with scissors. All grooming should be done by the 4-Her. Show sticks may not be used. 10-12 year olds: calves should be clean, clipping with 
**electric clippers is discouraged** while using a show stick is encouraged.

2096.Conference judging, 7-9 year old members as of 1/1/20
2097.Conference judging, 10-12 year old members as of 1/1/20
2098.Showmanship, 7-9 year old members as of 1/1/20
2099.Showmanship, 10-12 year old members as of 1/1/20

**Dairy Cattle Division**

Stall rent of $1.00 per head must be turned in with livestock entry form by Monday, July 6th

Purebred and grade dairy heifers and cows may be shown in dairy classes

2105. Spring heifer, calf
2106. Heifer, yearling
2107. Cows, aged
2108. Dairy showmanship

**Goats**

Check in will be Wednesday from 6-8pm. All goats will unload and load on the WEST side of the sheep and hog barn. Stall rent of $1.00 per head must be turned in with livestock entry form by Monday, July 6th. Purebreds and grade animals will be shown separately. Dairy goats will be shown separately from non-dairy goats. **ALL goats, including wethers, must be identified with a registered tattoo or an official USDA scrapie premises ID tag. Kids, under 8 weeks of age, accompanying their dams, are exempt from tagging requirements.**

**Dairy Goat Division**

Denotes State Fair Classes

2111. Dairy Does up to 6 months of age
2112. Dairy Does 6-12 months of age
2113. Dairy Does 12-24 months of age
2114. Dairy Does 2 years and older
2115. Jr. Dairy Goat Showmanship (13 and under as of 1/1/20)

2116. Sr. Dairy Goat Showmanship (14 and over as of 1/1/20)

**Meat Goat Division**

1. Identification: all meat goats must be tagged and have an official 4-H ear tag
2. Bracing: goats cannot be braced and must be shown with all four feet on the ground. Animals must be shown with a chain or collar used only to control the animal. Exhibitors can only briefly touch their animals with their body and cannot use the chain/collar to make their animal tense their muscles. The superintendent has the right to disqualify violators.
3. Teeth: all wethers must have baby teeth in place with no visible signs of permanent teeth
4. Shearing: all wethers must be “slick shorn” with an equal amount of hair above the knee and hock (head and belly excluded) prior to check in time. A maximum of .375” hair length is permitted.
5. Horns: all goats are suggested to be dehorned. However, if horns are left, they should be tipped and rounded (not less than the diameter of a dime at the end)
6. Grooming: artificial coloring, paint, or powder will not be permitted for use on wethers during the entire show
7. **All goats must be identified with an official USDA scrapie premise ID tag. Kids, under 8 weeks of age, accompanying their dams are exempt from tagging requirements.**

2121. Meat goat (no intact males)
2122. Breeding Goat
2123. Jr. Meat Goat Showmanship 13 and under as of 1/1/20
2124. Sr. Meat Goat Showmanship 14 and older as of 1/1/20
Sheep Division

Pen rent of $1.00 per head must be turned in with livestock entry form, due in the Extension office by Monday, July 6th. Sheep will be checked in on Wednesday, July 22nd, from 6-8pm. All sheep will unload and load on the WEST end of the sheep and hog barn. All Sheep MUST be free of “sore mouth”. All Sheep MUST be free of signs ringworm infection, including Club Lamb Fungus.

In addition to the general rules the following rules will also apply:

1. All showmanship lambs must be owned by the exhibitor
2. Exhibitors will not be allowed to use ice on the animal for fitting and showing
3. No painting of lambs above the hoof
4. All 4 feet will be on the ground at all times
5. The use of drugs on the animal will not be permitted unless approved and administered by a veterinarian
6. All grooming will be done by the 4-Her. Variances from this rule will be under the discretion of the superintendents
7. All market lambs must have their lamb teeth and will be mouthed at check in
8. All sheep must be identified with an official USDA scrapie premise ID tag, regardless of which division (market or breeding) the sheep are shown in. Lambs, under 8 weeks of age accompanying their dams are exempt from tagging requirements

NOTICE: All market lambs must be slick shorn before check-in and weigh-in. Wool length should not exceed .2 inch. No extra wool to be left on the hindquarter, leg or loin. This is in accordance with regulations at the State Fair and Kansas Jr. Livestock Show. Slick shearing of market lambs must be done within 2 weeks prior to fair check-in.

2130. Market lamb (no intact males)
2131. Pen of three market lambs (by one individual)
2132. Ewe lamb

2133. Yearling ewe
2134. Aged ewe
2135. Pee Wee Sheep Showmanship (6 & under as of 1/1/20)
2136. Junior Sheep Showmanship (7-13 as of 1/1/20)
2137. Senior Sheep Showmanship (14 and over as of 1/1/20)

Note: there will be a class for each recognized breed of breeding ewe: Suffolk, Hampshire, Dorset, crossbred, and any other breeds only if numbers warrant. Decision is up the sheep superintendents.

Swine Division

Pen rent of $1.00 per head must be turned in to the Extension office by Monday, July 6th with livestock entry form no later than 5pm. Swine will be checked in on Wednesday, July 22nd, from 6-8pm. All swine will unload and load at the WEST side of the sheep and hog barn. Read all General Rules and Regulations. See open class division for animal health requirements for swine.

2153. Market hog (divided into weight classes, all breeds)
2154. Breeding gilt (classes determined by superintendent)
2156. Pee Wee Swine Showmanship (6 and under as of 1/1/20)
2157. Junior Swine Showmanship (7-13 as of 1/1/20)
2158. Senior Swine Showmanship (14 and over as of 1/1/20)

Horse Division

Rules listed in the 4-H Horse Handbook and the General Rules will be followed. Horses must be entered by Monday, July 6th, at the Extension office by 5pm with a $1.00 per head stall rent. All horses shall be accompanied by an official health certificate. In addition to the general requirements, horses originating from other states shall show evidence of a negative EIA (Coggins) test conducted by a state-approved laboratory within 12 months prior to entry into Kansas. County-Level Rule: Safety helmets shall be allowed in all classes. Under no circumstances shall a 4-Her be penalized for wearing a helmet, even when such a helmet is not listed as “approved” dress in the Kansas 4-H Horse Show Rule Book.
Age Divisions for Horse Classes:
JR. Division - 13 and under as 1/1/20
SR Division - 14 and over as of 1/1/20

Awards will be given for horse showmanship, timed events, performance events, and all around/overall high point horse and rider.

Each award is made on the basis of one horse, one rider combination
The all around is for one horse and one rider overall. The following examples clarify the basis of the all around award:

Example #1:
A 4-Her has one horse, which is primarily used for performance classes. That horse accumulates points in those classes. He's not a great timed event horse, but manages to get a few points in the timed events. If he earns enough points in both, he may win the all around award, and the performance horse trophy. Remember this is the with the same rider.

Example #2
A 4-Her has two horses, one good timed event horse and one good performance event horse. This 4-Her may win the performance trophy and the timed event trophy, each on that particular horse. Since the 4-Her didn't ride the same horse in both, he/she can't with the all around award.

A point system below will be used to determine awards for the horse show.
1st - Five points
2nd - Four points
3rd - Three points
4th - Two points
5th - One point

This system will be used for all classes, and is not dependent on the number of participants in a class. For Example, if there are only two entered in the horsemanship class, first place will receive five points, second will receive four points. If seven are entered, points will be awarded 5-4-3-2-1 for the top five, sixth and seventh will not receive any points

2162. Halter Mares 5 & over*
2163. Halter Mares 4 & under*
2164. Halter Geldings 5 & over*
2165. Halter Geldings 4 & under*
2166. Jr. Showmanship*
2167. Sr. Showmanship*
2168. Jr. English Pleasure*
2169. Sr. English Pleasure*
2170. Jr. English Equitation*
2171. Sr. English Equitation*
2172. Jr. Horsemanship*
2173. Sr Horsemanship*
2174. Jr Western Pleasure
2175. Sr. Western Pleasure
2176. Walk-Trot* (First year members only, unable to do Western Pleasure)
2177. Jr Reining*
2178. Sr. Reining*
2179. Jr. Trail Horse*
2180. Sr. Trail Horse*
2181. Jr. Egg & Spoon*
2182. Sr. Egg & Spoon*
2183. Jr Barrel Race**
2184. Sr. Barrel Race**
2185. Jr. Pole Bending**
2186. Sr. Pole Bending**
2187. Jr. Flag Race**
2188. Sr. Flag Race**
2189. Ranch Horse Rail
2190. Ranch Horse Pattern

* Performance Classes
** Timed Classes

Round Robin Showmanship
Champion and Reserve Champion showmen from the junior and senior divisions of each of the livestock divisions (beef, sheep, swine, horse, and goat) are invited to compete in the round robin showmanship contest. If a 4-H member qualifies in multiple species the 3rd place participant will move up and be able to compete only if they received a blue ribbon.

For each specie, all senior contestants from the above livestock divisions will show at once. For example, there will be eight steers or heifers from the market and/or breeding classes of the beef show exhibited at once. Each contestant will show their own animal in the species they won and a drawing will be held for the other species.

The Judge will determine activities in the show ring and appropriate questions. The judge will select the Grand Champion and Reserve Champion at the end of the competition. Upon completion of the individual specie rotation, all animals will remain in place. The juniors will be brought in and they will show the animals in the ring. When the first rotation is over, the Seniors will be the next specie according to the rotation listed below and following the same procedure.

All livestock exhibited at the Mitchell County Fair will be eligi-
ble for the Round Robin. The judge has the discretion to rotate
the individuals in the show ring and score as he/she feels ap-
propriate; provided each specie or rotation is deemed of equal
value. When quantity of animals is limited, individuals will take
turns using the same animal.

The animals should be clean. Individual show superintendents
will supervise livestock waiting to be shown. Each specie super-
intendent will be responsible for the livestock to be used.

The order of the specie rotation will be:
1. Swine
2. Sheep
3. Goats
4. Beef
5. Horse

Poultry Division

Read the general rules. Judging will be consultation with 4-H
members present.

Check in by 9:30am on July 23rd. All poultry must be pre-
entered to the Extension office by July 6th.

Due to a nationwide shortage of antigen needed to con-
duct pullorum-typhoid testing in poultry, the Kansas De-
partment of Agriculture Division of Animal Health is waiving
certain poultry testing requirements. As a result, poultry own-
ers do not need to test their birds for the pullorum disease
while the waiver is in effect.

KDA is waiving the requirement for pullorum-typhoid
testing.

* Denotes State Fair Class

2200.*Standard Breeds; Large Fowl; one young bird of either
sex
2201.Standard Breeds; Large Fowl; one old bird of either sex
2202.*Standard Breeds; Bantams; one young bird of either sex
2203.*Standard Breeds; Bantams; one old bird of either sex
2204.*Production Pullets; pen of 3 standard bred, crossbred or
strain cross pullets to be judged on egg production quali-
ties
2205.*Production Hens; pen of 3 standard bred, crossbred or
strain. Hens will be judged on egg production qualities
2206.*Dual purpose pullets; pen of 3 such as Rhode Island
Reds, New Hampshire, Plymouth Rocks, etc
2207.*Dual purpose hens; pen of 3 such as Rhode Island Reds,
New Hampshire, Plymouth Rocks, etc
2208.*Turkeys; all breeds; one bird of either sex
2209.*Ducks; all breeds; one bird of either sex
2210.*Geese; all breeds; one bird of either sex
2211.Miscellaneous Fowl
2212.Poultry Showmanship, Junior (13 and under as 1/1/20)
2213.Poultry Showmanship, Senior (14 and over as of 1/1/20)

Rabbits

Due to the presence of Rabbit Hemorrhagic Disease (RHDV2) in
neighboring states, the Kansas Department of Agriculture’s
Division of Animal Health recommends that rabbit shows and
events be held by poster exhibits or by virtual means at this
time. No live rabbits are allowed on-site.

A 4-Her may enter a poster display to
present to the judge in accordance
with the correct class number.

2219. Pre-Junior doe - under 3
   months
2220. Junior doe - under 6 months of
   age
2221. Intermediate doe - 6-8 months
   of age
2222. Senior doe - 8 months of age
   and over
2223. Pre-Junior buck - under 3
   months
2224. Junior buck - under 6 months
   of age
2225. Intermediate buck - 6-8
   months of age
Senior buck - 8 months of age and older

Meat pen - Three rabbits, all one recognized breed and variety, minimum weight 3lbs each, maximum weight 5lbs each. Will be judged on the meat qualities, condition and uniformity. Cannot be over 70 days of age.

**Fur Classes**

2228. Normal White fur
2229. White Satin fur
2230. White Rex fur
2231. White wool
2232. Normal colored fur
2233. Colored Satin fur
2234. Colored Rex fur
2235. Colored wool

Colored and white fur entries must be from rabbits that are entered in the regular breed classes 2222-2229. Fur classes are limited to one entry per fur class, per exhibitor (not one entry per breed)

**Pet Show Division**

This division is for 4-H members enrolled in Cat, Aquarium Pets, Hand Pets, and Birds. Judging will be held Tuesday, July 21st at 2:00pm at the fairgrounds. Pets will be brought in to show and then taken home. Members will need to complete one section YELLOW ENTRY CARD AND BRING IT THE DAY OF THE SHOW. No pre-entries are needed. Judging will be by consultation. NOTE: ALL CATS MUST PROVIDE VETERINARY PROOF OF CURRENT RABIES VACCINATION. Read all general rules.

2242. Cats
2243. Pets

**Dog Show Division**

Post Rock District 4-H Fair Dog Show to be held July 21st in Osborne.

**Miscellaneous Exhibits**

**Banner Exhibits**

1. Each banner should illustrate a phase of 4-H work which is being practiced by boys and girls in 4-H or promote 4-H generally
2. 4-H exhibitors (individual or group) should avoid using copyrighted materials whenever possible by originating his/her own work. Read general regulations #6 for additional information
3. Banners are a 2-dimensional display, depicting one idea. Dimensions are to be no less than 12 and no more than 16 square feet, with no side less than 3 feet
4. Banners must be hung on a rod strong enough to support the banner. On each end of the dowel stick, there should be a wire or chain six inches long. One end of each wire will be fastened to the end of the dowel.
5. Banners should be made of materials that permit the banner to be folded or rolled without damaging the display. Objects may not be attached to the front of the banner.
6. One entry per exhibitor per class

3000. Banners constructed by an individual 4-Her
3001. Banners constructed by a group

**Energy - Electric**

1. Articles may have been used, but if so, should be cleaned before exhibiting
2. A sheet of operating instructions should be furnished for any exhibit not self explanatory
3. Exhibit must be operable using only 110 or 120 AC or battery power. If battery power is required, batteries should be furnished
4. Any project with a complexity of size or electronics must have (a) instructions for assembly and use and (b) equipment available at judging time for testing the exhibit
5. No hand dipped solder may be used on exhibits

3100.C Electric projects with 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 restoration or original construction. The project must be operational and meet minimum safety standards. AC projects must be 110/120V, no 240V exhibits are allowed, and must be constructed such that the judges have access to examine the quality and safety of workmanship

3101. DC Electric projects with a battery or direct current 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 doorbell switches. All DC electric projects must include batteries supplied by 4-Her. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship

3102. Electronics 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/assemble manual from kits. Include plans if an original project. Projects must be constructed such that the judges have access to examine
the quality of wiring workmanship

3103. 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 type projects which DO NOT have a power source, i.e. exhibits, posters or displays or 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 of 3’x4’.

Energy-Small Engines

All Exhibits should involve engines smaller than 20 horsepower for classes 3110-3112. Displays are limited to 4’ wide and 4’ deep-both upright and floor displays

3110. Display Exhibit, 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; 2) a display identifying and explaining the function(s) of different special tools needed for small engine work; 3) a display illustrating and providing the results of any one of experiments that are included in project books. No complete engines, lawn tractors, tillers, chainsaws are permitted for display. Maximum tri-fold is 3’x4’.

3111. Maintenance-Exhibit a display that illustrates either 1) Routine maintenance procedures; 2) Diagnosing and troubleshooting specific problems in an engine. No complete engines, lawn tractors, tillers, chainsaws, etc. are permitted for display, using a maximum tri-fold size of 3’x4’

3112. Operation-exhibit an operable small engine (no more than 20HP) overhauled or rebuilt by the member. Include maintenance schedule for the engine and a brief description of steps taken by the member overhauling or rebuilding the engine. Maximum tri-fold size is 3’x4’. Engine should contain no fuel in tank or carburetor

Entomology

A 4-H member may exhibit in the Entomology Collection, Entomology Notebook, and/or Educational Display categories. Within each category there are classes in Beginning, Intermediate or Advanced phases in which they enroll. An Introductory Entomology Collection Class exhibit is encouraged for county fairs (first year members only), but these may not be exhibits at the State Fair. See class descriptions within categories for requirements.

Collection Classes General Guidelines

1. All entries should be submitted in an 18 x 24 x 3.5 inch wooden display box with a clear plastic top (such as plexiglass). Boxes can be handmade or purchased as long as they are of the correct size and do not have a glass top.

2. 4-H’ers may choose to use one of two taxonomies: a) As printed in “insects in Kansas” book b) As printed on the “insects in Kansas Book: 2016 revised Taxonomy”, which follows www.bugguide.net

3. Each exhibitor is required to identify each box with two identification labels bearing exhibitor’s name, county or district, the class, 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 it can be displayed lengthwise.

4. 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 Collection Boxes and Notebook Classes, unless labeled as male or female and correctly identified.

5. Arrangement of specimens: The preferred method is to arrange the insects in groups or rows parallel to the short sides of the box. Specimens are to be arranged by order in the box, then family where required.

6. 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, state abbreviation and collector’s name on the second. Collector’s name on the date/locality label is optional.

7. 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.

8. Only Specimens of the class Insecta should be included. *This means specimens from arachnids, such as spiders, millipedes, centipedes, ticks, mites, etc. will not be judged or included in overall specimen county.

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

10. 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.

3113. Beginning I Entomology Collection Display in one standard box a minimum of 50 and a maximum of 125 species representing at least 7 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.

3114. Beginning II Entomology 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

3115. Intermediate Entomology 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) “Insect in Kansas” book - Orthoptera, Hemiptera, Homoptera, Coleoptera, Hymenoptera, and/or Diptera
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.

3116. Advanced Entomology 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 your 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.

Notebook Classes

1. Individual entries are to be placed for display in a three-ring notebook for competition

2. 4-H’ers may choose to use one of two taxonomies. 
a) As printed in “insects in Kansas” book or 
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 exhibitor’s name, county or district and class 4-Her is enrolled in and statement of taxonomy used: 
a) “Insects in Kansas” book or 
b) “Insects in Kansas Book: 2016 Revised Taxonomy”

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, state abbreviation and collector name should be included for each species. Collector’s name on the specimen page is optional

7. Specimen pages should have 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 and also on the front of the divider page

10. For 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.

3117. 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-H member must be of minimum age to complete at the Kansas State Fair. A 4-H member may exhibit in this class for a maximum of two years.

3118. Beginning Entomology Notebook Display a minimum of 20 and a maximum of 60 insect species representing at least 7 different orders. Follow the general guidelines listed for all Notebooks, including the Special Project. 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.

3119. Intermediate Entomology Notebook Display a minimum of 60 and a maximum of 100 species representing at least 9 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: (Only two will be counted for judging)

   a) “Insects in Kansas” book – Orthoptera, Hemiptera, Homoptera, Coleoptera, Hymenoptera, and/or Diptera
   b) “Insects in Kansas Book: 2016 Revised Taxonomy” which follows www.bugguide.net - Odonata, Orthoptera, Hemiptera, Coleoptera, Hymenoptera, and/or Diptera

A 4-H may exhibit in this class for a maximum of three years. A 4-H may move up if they receive a purple ribbon.

3120. Advanced Entomology Notebook Display a minimum of 100 and a maximum of 200 species representing at least 12 orders. Follow the general rules listed for Notebooks, including the Special Project. Follow the general guidelines listed for notebooks. 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. 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

EDUCATIONAL DISPLAYS

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 state fair), programs, websites, games, apps, display box, notebook, display or poster which you have made.

4. If the exhibit is a wooden display box, it must be 18 X 24 X 3.5 inches with a clear plastic top (such as plexiglass) and displayed horizontally. If the exhibit is a poster, it must not be larger than 22” X 28”. If the exhibit is a display, maximum size is not to exceed a standard commercial 3’ X 4’ tri-fold display board.

5. Name and county/district must clearly be marked on educational exhibits.

3121 BEGINNING EDUCATIONAL EXHIBIT

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.

3122 INTERMEDIATE EDUCATIONAL EXHIBIT

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

3123 ADVANCED EDUCATIONAL EXHIBIT

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.

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Forestry

1. All leaf exhibits are to be mounted on 8.5” x 11” heavy stock paper and placed in loose leaf binders. (magnetic or adhesive filler sheets for photographic prints or sheet protectors are recommended). Twigs 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.

Name, club, age, and year in project should be on front cover or in a prominent location.

3. Leaves should be identified with an appropriate label located near the leaf on the same page. These labels should include (1) the 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); (2) Location (city and/or county) where collected; (3) Date (day, month, year) collected.

4. Divide specimens into the following two sections: Native Kansas Trees and Non-Native Trees.

5. Intermediate Forester. Exhibit only in phase enrolled.

6. Senior Forester enrolled in Self-Determined can exhibit in Self Determined Forestry at the State Fair.

7. New Specimens are those specimens collected during the current 4-H year.

8. Group Specimens according to the years collected (Ex: “old-previous” & "new”)

9. Variations of variety do not count as different species or specimens.

10. Leaf Collections - Exhibit one complete leaf where possible. Where leaf is too large, exhibit as much of terminal portions as possible. Sketch in reduced scale the entire leaf and illustrate where the exhibited portion comes from.

3300. Beginning Leaf Collections 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 Exhibit a minimum of 5 native Kansas trees showing leaf, twig, and fruit from each species collected. This exhibit must include 45 new leaf, twig, and fruit specimens.

3301. Intermediate Leaf Collections Exhibit a minimum of 20 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 Kansas trees. OR Exhibit a minimum of 10 native Kansas trees showing leaf, twig, and fruit from each species collected. This exhibit must include 45 new leaf, twig, and fruit specimens.

3310. Senior Leaf Collections 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 Kansas trees. OR Exhibit a minimum of 15 native Kansas trees showing leaf, twig, and fruit from each species collected. This exhibit must include 10 new leaf, twig, and fruit specimens.

3311. Advanced Leaf Collection 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 Exhibit a minimum of 20 native Kansas trees showing leaf, twig, and fruit from each species collected. This exhibit must include 10 new leaf, twig, and fruit specimens.

3320. Notebook: How A Tree Grows: 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 exhibits an illustration of how a tree grows.

3321. Notebook. Tree Appreciation: Entry may include a research or reporting project 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.

3322. Display/Notebook. Growing and Protecting Trees: 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. Maximum tri-fold size is 3’X4’.

3323. Display/Notebook. Tree Culture: Entry requires a display or project notebook showing your project work and includes pictures of before, during and after wood lot improvement. Maximum tri-fold size is 3’X4’.

3324. Display. How Forests Serve Us: Entry may include collected wood samples (all or partial) and a 2-page essay. Wood sample display to be mounted on poster board or any stiff material no larger than a 3’X4’ tri-fold. Essay should be displayed in a covered binder.

3325. Display. 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 tri-fold size of 3’X4’. Care should be taken to use durable materials that will withstand fair conditions. This is a good class to exhibit an unusual collection.
Geology and Lapidary Special Rules

1. The exhibit box should be 18 x 24 x 3.5 inches. Plexiglass 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 inches across the top and 24 inches deep exactly. If a box has a sliding plexiglass cover, it must be removable from the top. Screws, locks or other devices that would prevent judges from removing the cover should not be used.

2. Each exhibitor is required to identify each display box by placing an identification label bearing name, county or district and number of specimens in the upper left hand corner of the plexiglass cover (inside-use clear double sided tape to adhere gummed labels) and by attaching a label with the same information on the lower right corner of the box (outside)

3. Exhibitor may enter in both geology and lapidary classes. Exhibitor may show in only one of the first four geology classes (3350-3353). Exhibitor may also show in geology classes special exhibit, mineralogy, fossils, and in one lapidary class.

4. Geology specimens should be labeled with the number of the specimen, date collected, specimen name or description, and locality (county) where collected.

5. For the geology classes 3350-3353 specimens should be mounted in the box by proper groups: rocks, minerals, fossils. Fossils must be identified to the Phylum, Class and Genus level. 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; exact species must have different formation names listed on the ID card; Composite Brachiopod from Morrill Limestone, not just Brachiopod or Composite Brachiopod)

6. For geology classes 3350-3353 all specimens must be collected (not just purchased) from locations in Kansas. Out of state specimens will not count in the minimum number for the class, nor will they be considered in the judging.

3350. Geology. Display at least 60 rocks, minerals, or fossils, at least 5 of each. FIVE must be collected during the current 4-H year. Exhibitor is limited to one exhibit box. Only those exhibiting at State Fair for the first time may enter this class.

3351. Geology. Display at least 30 different rocks, minerals, or fossils, at least 5 of each. FIVE must be collected during the current 4-H year. Exhibitor is limited to one exhibit box. This class is open to those exhibiting either first or second time at State Fair.

3352. Geology. Display at least 45 rocks, minerals, or fossils, at least 5 of each. FIVE must be collected during the current 4-H year. Exhibit limited to two boxes. This class is open to those exhibiting either the third or fourth time at the State Fair. Identify the rocks as igneous, metamorphic or sedimentary. These rock types must be spelled out on labels or have a legible key.

3353. Geology. Display at least 60 rocks, minerals, or fossils, at least 5 of each. FIVE must be collected during the current 4-H year. Exhibit limited to two boxes. This class is open to those exhibiting the fifth time or more at the State Fair. Identify the rocks as igneous, metamorphic or sedimentary. These rock types must be spelled out on labels or have a legible key.

3354. Geology Educational Exhibit: 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. Please 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 State Fair conditions. Exhibitor may show in the class regardless of number of times he or she has exhibited at State Fair or whether exhibitor has entries in other classes. Exhibitor may also exhibit in lapidary class.

3355. 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. The minerals are to be grouped by mineral class (ie: Carbonates, Oxides, Silicates) and at least 3 classes must be represented. The member must use one standard display box (see #1). The 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.

3356. Fossils. 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.) The member must use one standard display box (see #1). The 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.) See #5 for additional fossil labeling expectations.

Lapidary Class will be judged on the following criteria:

a) Workmanship and Content - 60 pts
b) Presentation and Showmanship - 30 pts
c) Accuracy of Information - 10 pts

3370. 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. Only
those exhibiting in lapidary at the State Fair for the first time may exhibit in this class

3371. Lapidary. Display before and after example of at least 3 varieties of specimens, at least 2 tumble polished and 2 unpolished of each. Locales must be identified. Lapidary work should be done during the current 4-H year.

3372. Lapidary. Display before and after example of at least 6 varieties of specimens, at least 2 tumble polished and 2 unpolished of each. At least two varieties should be collected from the native site by the 4-Her, 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.

3373. Lapidary. Display before and after example of at least 9 varieties of specimens, at least 2 tumble polished and 2 unpolished of each. At least three varieties should be collected from the native site by the 4-Her, 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.

3374. Lapidary. Exhibit at least 6 specimens that have not previously been exhibited, which have received lapidary treatment. Lapidary treatment may consist of polishing an 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.

Photography

1. Photography will be judged Wednesday, July 22nd starting at 9:00am.
2. Black and white and color photographic prints may be exhibited.
3. Color Photos: A color photo taken with a digital camera and printed without any more enhancement than could be done in a photo darkroom would be no different than photo from film. These photos should be entered in classes 3400-3402 depending on years in the photography project.
4. Computer Manipulated Photos: Computer enhanced or manipulated photos are those manipulated in the computer beyond that which can be done in a dark room. These photos should be entered in class 3404.
5. Members are limited to 3 entries per class.
6. All photos must be no larger than an 8”x10” and no smaller than 7”x9” after trimming. They are to be mounted across the narrow (11”) dimension of an 11 x 12.5 inch sheet of white or cream studio mount. Do not use a foam core.
board. Photos mounted on poster board will not be displayed. The top edge of the print must be 1” below the top of the mount. The sides of this print must be equal distance from the two sides of the mount. A permanent mount must be made using photographic adhesive mounting. Remove white border from the enlargement before mounting

7. Improperly mounted photos (including prints with the white border not removed) will be dropped one ribbon placing

8. No lettering, including dates, will be permitted on front of the mount or on the photo. No underlays or borders are to be used

9. 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

10. Digital Composite Image: Finished photo must be credited from two or more original sources created by exhibitor. HDR photos do not qualify for this class. Photos will be judged on photographic merit as well as manipulation technique and process. Ribbon placement will be determined by combining the score of each judging section

11. The 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 class

12. 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

13. Photos with live subject(s) on railroad right of way or taken from railroad right of property will be disqualified, not judged

14. Copyright protections must be observed

15. Judging will be by consultation beginning at 9am. 4-Hers should sign up for a time when they check in their exhibit

3402. Color photos taken by a 4-H member with 8 or more years in the project

3403. Black and white photos - all levels of experience (black and white prints ONLY)

3404. Digital Composite Image - Photo must be created from two or more original images taken by the exhibitor. Exhibitor must include a second 11 x 12.5 matt board done and a standard size print or prints (if more than one photo was used) of the original photo(s), 3 x 5 card(s) explaining what manipulation was done and a stand size print of the final photo. Optional, may include additional photos (standard size and may be layered) showing 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 #10 above for definition

3405. Photos (from file only) with special effects. Would include darkroom manipulation of print and/or in camera manipulation of the negative

3406. Photo story: 3-5 black and white or color photos mounted on tagboard that tell a story. No lettering will be allowed on the poster. Photos may be any size

3407. 4-H Photography Notebook

3408. Growth Portfolio

1. Member must have been enrolled in photography project for five (5) years or more.

2. Exhibit will consist of 5 (five) 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.

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3. Photos must be 8”X10” and may be color or black and white.

4. 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.

5. Skill set used to create the photo must be given and explained. Main goal for each year should be listed.

6. Beginning with photo 2, member description of GROWTH in project skill must be included on information sheet.

7. Exhibit will consist of photos arranged in chronological order of enrollment, information sheet on each photo, and all information listed in #6 and #7. A portfolio book will be required.

3409. Career Portfolio

1. Member must have been enrolled in photography project for five (5) or more years OR member must be age 15-19 and been enrolled in photography for at least two (2) years.

2. Exhibit will consist of ten (10) 8X10 photos showing skill development in one of the following photography areas: Portraiture, Special Effects (not done with computer), Landscape, Photo Journalism, Black and White, Nature/Wildlife or Graphic Design (computer skills with photos). Photos may have been created over multiple project years.

3. Photos may be color except if black and white option is chosen.

4. 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.

5. 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.

6. Exhibit will be presented in a notebook designed for portfolio review with pages for required information from #4 and #5.

A Champion and Reserve Champion photo exhibit will be selected in two categories: Junior 13 and under & Senior 14 and older

Posters, Notebooks and Displays

1. This department is open to 4-Hers enrolled in any project. You are limited to two entries per class.

2. The purpose of this class is to share some aspect of a project in which you are enrolled.

3500. Posters

3501. Notebooks

Shooting Sports

1. A member may make only one entry in this division.

2. Exhibits in this division are open to educational displays or promotional posters. Follow copyright laws as explained in the General Rules as you are preparing your exhibit. Take care to select durable materials to withstand State Fair conditions. Entries will prominently incorporate the 4-H Clover with KSRE branding and should include the Kansas 4-H Shooting Sports emblem. Failure to do so will penalize entry one ribbon color.

3. Educational Display must be standard tri-fold board ONLY, must not exceed standard tri-fold: 3’x4’; no additional table space available for promotional brochures or display items; content not to exceed display board borders. Failure to follow size limitations will penalize entry one ribbon color.

4. Promotional Posters must be flat and no larger than 22”x30”; content not to exceed display board borders; failure to follow size limitations will penalize entry one ribbon color. Posters will be displayed on wall.

5. Notebooks no larger than 8.5” x 11”.

The exhibit size rule will be strictly enforced! Exhibits exceeding the size guidelines will be penalized one ribbon color.

6. Exhibitors must comply with state and federal laws and Kansas State Fair management policies. 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. Please remember that neither the Kansas State Fair nor the department of 4-H Youth Development, Kansas State University Research and Extension are liable for the loss or damage of any personal property included as part of your poster, display or notebook.

7. Name, county or district, age and year in project should be on the front of the poster, display or notebook.

8. Exhibits will only be accepted from Extension Units with 4-H Certified Shooting Sports programs.

9. Exhibits will not be accepted if they are related to reloads.

10. Educational Displays will be judged on the following points:
   a. Stopping Power: 15
   b. Interest, Holding Power: 15
   c. 4-H Project Application: 15
   d. Mechanical Power: 5
   e. Personal Growth: 25
   f. Educational Value
11. Posters will be judged on the following points:
   a. Stopping Power: 30
   b. Interest, Holding Power: 30
   c. 4-H Project Application: 25
   d. Mechanical Power: 15
   TOTAL: 100

6200. Educational Display: Must be directly related to the 4-H Shooting Project (standard tri-fold boards only, no larger than 3'x4').

6201. Promotional Poster: Must promote 4-H Shooting Sports (Maximum size 8.5” x 11”)

6202. Notebook: contents pertain to some phase, results, story or information about 4-H Shooting Sports

4-H SpaceTech—Astronomy

1. The 4-H member must be enrolled in the 4-H SpaceTech project to exhibit in this division.
2. Each exhibitor may enter one exhibit per class. Exhibit must have been completed during the current 4-H year.
3. Telescopes entered in this division may be built from a kit or by original design. Pre-finished telescopes which require no construction or painting are not acceptable exhibits.
4. Telescopes are limited to no more than three feet in length. They must be placed on a stationary stand that doesn’t allow the telescope to roll and/or fall over. The stand cannot extend past two feet in length or width.
5. Each telescope exhibit must include a “4-H Astronomy Exhibit Information Form,” which should be rubber cemented onto the outside of a 10”x13” manila envelope. You must also include construction plans (or a photocopy) of the telescope and place it inside the manila envelope.
6. See the last section for full details about exhibiting posters, display boards, and notebooks.
7. Two photographs showing telescope construction and operation are required. Photographs should be mounted on one side of an 8.5”x11” page. A brief caption should accompany each photograph. Place photos in the 10”x13” manila envelope.
8. The telescope must be properly assembled and painted with a smooth and uniform finish. Decals, if used, should be attached smooth and tight.
9. Telescopes designed by the exhibitor must be original, not a modification of an existing kit.
10. Exhibitor’s name, age, and year(s) in project must be tagged or labeled in a prominent location on the telescope stand, educational display, notebook, and/or poster.

3700. Telescope made from kit.

3701. Telescope made from original design.

4-H SpaceTech—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 motherboard based manipulation) will remain in the Energy Management division.
2. Each exhibitor may enter one exhibit per class. Exhibit must have been completed during the current 4-H year.
3. Exhibitor’s name, county or district, 4-H age, and year(s) in project must be tagged or labeled in a prominent location on the exhibit, educational display, notebook and/or poster.
4. See the last section for full details about exhibiting posters, display boards and notebooks.

Computer Systems

The Kansas 4-H SpaceTech Computer Systems 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 systems (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 4-8”X4-8”X4-8”) 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 systems” 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 display cases.

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

5. For chip systems, 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 SpaceTech 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 (those entries not covered by the rules above) 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.KansasSpaceTech.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 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.KansasSpaceTech.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.

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

11. Since there is no conference judging at the Kansas State Fair, a set of instructions must be provided to run the computer system/application. These instructions should be printed off and included in the exhibit package and a copy should be included on the USB drive.

a. 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.

b. 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 below. An example of instructions can be found at www.KansasSpaceTech.com.

12. Each exhibit must accomplish a specific automated task using a computer, a chip system, or virtual machine (VM).

13. Kanas State Fair Judge(s) in the computer systems division will have a physical computer with the following minimum configuration to test exhibits with and view files: a. Microsoft Windows® 10

b. Microsoft Office® Home 2010 (Excel, Power Point, & Word)

c. Microsoft Internet Explorer®

d. Mozilla Firefox® Browser

e. Google Chrome® Browser

f. Adobe Acrobat Reader®

g. Apache OpenOffice®

h. VMware Player Windows 64bit

i. Scratch Desktop editor (offline version)

14. 4-Hers should not assume that the computers in rule 9 have Internet connectivity and that any parts of the exhibit that require Internet access will not work. It is strongly recommended that 4-Hers test exhibits on a computer with Internet connectivity disabled.

15. Kansas 4-H SpaceTech 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.KansasSpaceTech.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.KansasSpaceTech.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

Division B – Computer Systems

5590 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.’)

5591 Computer presentation (power point, web page/site, animated graphics, etc.)

5592 Single computer system (web server, database server, etc.)

5593 Networked system consisting of two or more computers

5594 Chip system - a small (4”X4”X4”) programmed physical device that accomplishes a specific task

4-H SpaceTech—Robotics

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

2. Each exhibitor may enter one robot per class. Exhibit must have been constructed and/or completed during the current 4-H year. The robot must have been selected at the county level for entry at the State Fair. Counties or districts should select only top blue or purple ribbon robot exhibits which meet State Fair guidelines.

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 reticulated structures (arms, wheels, grippers, etc.). Game consoles that display on a screen are not considered robots and should either be entered in computer systems division or energy management project. Robots requiring no assembly, just programming, such as Ozobots, are considered computer systems 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 operable working condition. The judges will operate each robot to evaluate its workmanship and its ability to complete the required tasks for this current 4-H year. 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 SpaceTech Robotics Exhibit Information Form” which is available through your local K-State Research and Extension office. 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 electric program as under the SpaceTech robotics project if the

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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. 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.

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

16. There are no county or district boundaries that must be adhered to in order to form a Kansas 4-H SpaceTech Robotics team. However, as mentioned in #1, each team member must be currently enrolled in the Kansas 4-H SpaceTech project.

17. After the robots are judged, participants can take them home but must leave a picture and their ribbon display.

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

Intermediate Division – Ages 9 to 13 years

3760 Robot made from a commercial (purchased) kit. (No programming, just assembly.)

3761 Robot designed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.

3762 Programmable robot made from a commercial (purchased) kit.

3764 Robot designed and constructed by exhibitor or from a commercial kit, that is operated by a remote controlled device.

3765 Junk Drawer Robotics

3767 Robot designed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.

3768 Programmable robot made from a commercial (purchased) kit.

3769 Robot designed and constructed by exhibitor or from a commercial kit, that is operated by a remote controlled device.

3770 Robot made from a commercial (purchased) kit. (No programming, just assembly.)

3771 Robot designed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.

3772 Programmable robot made from a commercial (purchased) kit.

3774 Robot designed and constructed by exhibitor or from a commercial kit, that is operated by a remote controlled device.

3775 Junk Drawer Robotics

Team Robotics Project

3777 Robot designed and constructed by two or more 4-H SpaceTech 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 SpaceTech 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.

4-H SpaceTech—Rocketry

The Kansas 4-H SpaceTech 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. SpaceTech superintendent(s) will be present on the first Friday of the fair at 5:00 p.m. to convey judging criteria and to answer questions for exhibitors. Consultation/interview judging is not available during judging on Friday.

2. All revisions of all forms previously released for the SpaceTech 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.

3. Relevant documents may be obtained from County Extension Offices or from www.KansasSpaceTech.com

4. NAR refers to the National Association of Rocketry and its governing board.

5. Tripoli refers to the Tripoli Rocketry Association and governing board.

6. All NAR documents, with the exception of the “pink book,” referenced herein can be found at http://www.nar.org.

7. If a fire burn ban is in effect for any county in Kansas, exhibitors in any Kansas County are not required to launch their rocket(s). All requirements for the launching of rockets for the state fair and the documenting of the launching are suspended for the duration of the ban.

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

B. Exhibit Definitions 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
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 SpaceTech a mid-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

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. NAR rules for launching and construction of all rockets are assumed to be used by all 4-H SpaceTech exhibitors and will be considered during judging.

3. For the purposes of Kansas 4-H SpaceTech, 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 SpaceTech division.

1. 4-H members must be currently enrolled in the 4-H SpaceTech-Rocketry program to exhibit in this division.

2. Entries must have been selected at the county level for entry at the State Fair. Counties/Districts should select top blue or purple ribbon rocketry exhibits which meet Kansas State Fair guidelines.

3. Each exhibitor may enter up to two rocket exhibits that have been constructed during the current year. If two rockets are entered, one rocket must be a “model rocket kit” or the second may be entered into any other applicable class. An exhibitor may not enter two rockets in the same class.

4. The report that accompanies the rocket must be limited to the 4-H SpaceTech 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.KansasSpaceTech.com Any rocket exhibit not including this completed envelope will receive an automatic participation ribbon.

5. 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.

6. 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.

7. 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.

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

9. 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.

10. 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.

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

12. 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 un-
2. Beginner kits with prefabricated fin assemblies and pre-instructions for construction of all rockets displayed in the SpaceTech division.

D. Construction Rule for All Rockets

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

4. Angles of fins must fall within a plus or minus 2 degree variation 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.

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 the 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 SpaceTech 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-Hers 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

5520 Rocket made from kit. Include plans.

5521 Rocket designed by exhibitor: not merely a modification of an existing kit. Include original plans.

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

5524 Rocket made from kit. Include plans.

5525 Rocket designed by exhibitor: not merely a modification of an existing kit. Include original plans.

Division C - Exhibitors 14 years and older

5528 Rocket made from kit. Include plans.

5529 Rocket designed by exhibitor: not merely a modification of an existing kit. Include original plans.

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.

5530 Rocket designed by 2 or more exhibitors: not merely a modification of an existing kit. Include original plans.

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 in-
4-H SpaceTech—Unmanned Aerial System

Purpose: The 4-H unmanned aerial systems 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 systems 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 SpaceTech project to exhibit in this division.
2. Each exhibitor may enter one exhibit per class. Exhibit must have been completed during the current 4-H year and have been selected at the county level for entry at the State Fair Level. Counties or district should select only top blue or purple ribbon exhibits which meet State Fair guidelines.
3. The information that accompanies the UAS must be limited to the 4-H SpaceTech Exhibit Information Form which is affixed to a 10”x13” envelope. This envelope should NOT be attached to a UAS. This may be downloaded from www.kansaspaceotech.com. Any UAS exhibit not including this completed envelope will receive an automatic participation ribbon.
4. Unmanned aerial systems exhibits may be checked out for use in a Kansas State Fair 4-H demonstration or 4-H illustrated talk with prior permission. For permission, check with the superintendent or Deryl Waldren. The exhibit must be returned to display immediately after the demonstration/illustrated talk or the exhibit will be disqualified.
5. Exhibitor’s name, county or district, age, and year(s) in project must be tagged or labeled in a prominent location on the exhibit, educational display, notebook, and/or poster.
6. SpaceTech superintendent(s) will be present on the first Friday at 5:00 p.m. to convey judging criteria and to answer questions for exhibitors. Consultation/interview judging is not available during judging on Friday.
7. Unmanned Aerial Systems that include or depict weaponry of any kind will be disqualified.
8. See the last section for full details about exhibiting posters, display boards and notebooks.
9. If modifications are made to the exhibit a page should be attached noting those modifications.

10. 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 – 9–13 years old

5610. 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.

5611. 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.

5612. 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.

5613. 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.

Senior Division – 14 years and older

5614. Unmanned Aerial System designed and constructed. A UAS that is purchased off the shelf in this class.

5615. Practical application of a UAS that is designed and constructed. A UAS that is purchased off the shelf in this class.

4-H SpaceTech Educational Exhibits—Posters, Notebooks, and Display Boards

Purpose: To allow 4-Hers to explore SpaceTech outside the bounds of traditional projects for rockets, robotics, astronomy, computers and unmanned aerial systems. 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. Entries must have been selected at the county level for entry at the Kansas State Fair. Counties/Districts should select top blue or purple ribbon Educational Rocketry Exhibits which meet State Fair guidelines.

3. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.

4. Exhibits in posters, notebooks and display boards must contain substantial supporting educational materials.

5. 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 will be available at www.kansasspacetech.com. For example, a rocket may have crashed and/or is highly damaged that can’t be launched again may be made into an educational display or poster that tells a great story with many lessons learned.

6. 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.

7. Educational displays are not to exceed a standard commercial 3’x 4’ tri-fold display board. No card board table exhibits will be allowed. Care should be taken to use durable materials that will withstand Kansas State Fair conditions.

8. “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.

9. Educational Project notebooks must be organized in a 3-ring binder.

10. Any three dimensional display exhibits may not be thicker than 1”.

11. Engines and igniters in rockets ARE NOT permitted with the exhibit and constitute an immediate disqualification. This is for safety reasons and includes both spent and live engines.

12. 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. Failure to label an exhibit may result in one ribbon placing deduction.

13. 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 Systems, Robotics, Rocketry, or Unmanned Aerial Systems

f. As well as those characteristics described above.

14. 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

Astronomy - Intermediate Division – 9-13 years old

5731 Astronomy Educational Display

5732 Astronomy Educational Notebook

5733 Astronomy Educational Poster

Astronomy- Senior Division – 14 years and older

5736 Astronomy Educational Display

5737 Astronomy Educational Notebook

5738 Astronomy Educational Poster

Rocketry Intermediate Division– Exhibitors 9 through 13 years old
5741 Rocketry Educational Display
5742 Rocketry Notebook
5743 Rocketry Poster Board

**Rocketry Senior Division — Exhibitors 14 years and older**
5746 Rocketry Educational Display
5747 Rocketry Notebook
5748 Rocketry Poster Board

**Robotics Intermediate Division — 9-13 years old**
5756 Robotics Educational Display
5757 Robotics Educational Notebook
5758 Robotics Educational Poster

**Robotics Senior Division — 14 years and older**
5761 Robotics Educational Display
5762 Robotics Educational Notebook
5763 Robotics Educational Poster

**Robotics Division D — Team Robotics Project**
5766 Team Robotics Educational Display
5767 Team Robotics Educational Notebook 47
5768 Team Robotics Educational Poster

**Computers - Intermediate Division — 9-13 years old**
5771 Junior Computer Educational Poster
5772 Junior Computer Display Board
5773 Junior Computer Notebook

**Computers - Senior Division — 14 years and older**
5776 Senior Computer Educational Poster
5777 Senior Computer Display Board
5778 Senior Computer Notebook

**Unmanned Aerial Systems - Intermediate Division — 9-13 years old**
5781 Unmanned Aerial Systems Educational Poster
5782 Unmanned Aerial Systems Display Board
5783 Unmanned Aerial Systems Notebook

**Unmanned Aerial Systems - Senior Division — 14 years and older**
5786 Unmanned Aerial Systems Educational Poster
5787 Unmanned Aerial Systems Display Board
5788 Unmanned Aerial Systems Notebook

**Tag-a-longs**
For member age 5-7, for exhibit only. Tag-a-longs will receive a participation ribbon and a drink at the 4-H food stand. Each tag-a-long is limited to one entry.

3815. Tag-a-long exhibit

**Welding**
Exhibits in this department are the result of a self-determined project.

3900. Beginners Welding
3901. Acetylene
3902. Arc Welding
3903. Small Projects
3904. Medium-sized Projects
3905. Large Projects
The superintendent will designate in which class the 4-Hers are to exhibit.

**WOODWORKING**
1. No exhibitor shall enter more than one article in each class.
2. The plan from which the exhibit was constructed must be with the article. 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.
3. Any project that has glass that is not secured, 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 of cabinet, etc., is permissible since it cannot be removed from the project.
4. Projects with missing or insufficient plans will be lowered one ribbon placing (i.e. a blue ribbon exhibit will receive a red ribbon).
5. The use of materials other than wood should be kept to a minimum.
6. Woodworking will be conference judged and member must be present. A schedule will be posted the morning of judging.
7. Firearms and weapons are not to be entered or displayed.

3950. Woodwork articles for farm or shop use.
3951. Furniture for household or lawn use.

3952. Other woodwork articles not included in the above (e.g. bird houses, bird feeders, household equipment such as knife racks, bread boards, door stops, etc.).

3953. Pieces of repaired or refinished furniture. Must be accompanied by an explanation of work completed. (For State Fair, these pieces are entered in the home environment division, single exhibit class).

3954. Any article from a kit. (May not go to State Fair).
3950. Woodwork articles for farm or shop use.

3951. Furniture for household or lawn use.

3952. Other woodwork articles not included in the above (e.g. bird houses, bird feeders, household equipment such as knife racks, bread boards, door stops, etc.).

3953. Pieces of repaired or refinished furniture. Must be accompanied by an explanation of work completed. (For State Fair, these pieces are entered in the home environment division, single exhibit class).

3954. Any article from a kit. (County class only. May not go to State Fair).
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