

ARTS AND CRAFTS - Visual 4-H

Department 120

Superintendents: Samantha Box
Sarah Plinsky

NOTE: Visual Arts & Crafts include: cutting, pasting, drawing, painting, sculpting, printing, 3-D construction and fiber not included in Heritage Arts.

Special Rules

1. Read General Rules. Pre-enter by June 30. Exhibitor must be enrolled in Visual Arts.
2. An exhibitor may enter up to 4 articles per age level with no more than one entry from a kit.
3. Each exhibit should be the original work of the exhibitor except those entered in classes 12002, 12004, 12006 & 12008.
4. Work should be matted, framed or in acceptable form to display and hang. Mounts, mats, or frames need not be constructed by exhibitors. **All exhibits which need to be hung must have a wire or saw tooth hanger attached in order to be properly displayed. Points will be deducted on exhibits that are not properly displayed.**
5. To each Arts and Crafts exhibit attach a 3 x 5 index card with a brief description of the technique used and the experience: Example: A) We went to pottery store and I glazed a pre-made ceramic piece, or B) We studied cubism and this is my example copying Picasso.
6. Judging will be held from 2:00 p.m. to 7:00 p.m., Monday, July 28. 4-H'ers are encouraged, but not required, to sign up for consultation judging on one (1) entry. All exhibits in this division must be entered at this time. No entries in this division will be accepted on Tuesday.
7. Designated exhibits will be selected to represent Douglas County at the State Fair. State Fair exhibits are for display only and are not judged. The number will be based on a percentage of enrollment as determined by the State. 4-H'ers must be 9 years old and older to exhibit at the State Fair.

7-8 year old 4-H'ers

- 120 A 12001 Any Visual Arts or Craft
120 A 12002 Any Craft from a Kit

9-11 year old 4-H'ers

- 120 B 12003 Any Visual Arts or Craft
120 B 12004 Any Craft from a Kit

12-14 year old 4-H'ers

- 120 C 12005 Any Visual Arts or Craft
120 C 12006 Any Craft from a Kit

15-19 year old 4-H'ers

- 120 D 12007 Any Visual Arts
120 D 12008 Any Craft
Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red, and White
Overall Grand Champion, Overall Reserve Grand Champion
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ARTS & CRAFTS - HERITAGE FIBER ARTS

Department 120

Superintendent : Pam Johnston

NOTE: Heritage Arts include; Crochet, Knitting, Needle Arts, Patchwork, Quilting, Rug Making, Spinning, Weaving, Ethnic Arts and Macramé.

Special Rules

1. Read General Rules. Pre-enter by June 30. Exhibitor must be enrolled in Heritage Fiber Arts
2. Identification labels should be a 2 ½ x 3 inch piece of cloth on which you type or print class number, county and name. Sew or safety pin labels on. Label each piece.
3. An exhibitor may enter up to 4 entries per class.
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. The exhibitor may attach an index card, no larger than 3" x 5", with the entry form to give the judge any information which the exhibitor thinks would be helpful for the judge to know. Explain whether you created the fabric for a knitted article by hand or by a knitting machine. Explain if the article is an original design
6. When the exhibit is a sewed garment that also includes one or more Heritage Fiber Art techniques (i.e. knitting, crochet, needle arts, or patch work and quilting), the determination of what division (Clothing or Heritage Fiber Arts) and class in which to enter will be left with the 4-H participant.
7. All exhibits which need to be hung MUST have the appropriated hanger, rod, wire or other mechanism attached in order to be properly displayed.
8. Judging will be held from 2:00 p.m. to 7:00 p.m., Monday, July 30. 4-H'ers are encouraged, but not required, to sign up for consultation judging on one (1) entry. All exhibits in this division must be entered at this time. No entries in this division will be accepted on Tuesday.
9. This division is eligible for State Fair exhibit if the entry receives a purple ribbon and the exhibitor meets the age requirements.

7-8 year old 4-H'ers

120 F 12015 Any Heritage Fiber Art

9-11 year old 4-H'ers

120 F 12016 Any Heritage Fiber Art

12-14 year old 4-H'ers

120 F 12017 Any Heritage Fiber Art

15-19 year old 4-H'ers

120 F 12018 Any Heritage Fiber Art

Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red, and White
Overall Grand Champion, Overall Reserve Grand Champion

A WAY WITH WASTE 4-H

Department 130

Superintendent: Jill Morgison

Special Rules

1. Read General Rules. Pre-enter by June 30
2. 4-H'er must be enrolled in Self-determined, Away With Waste to enter.
3. A maximum of two items per class may be entered.
4. No State Fair Category for this category.

130 A 13001 Indoor decorative item
130 A 13002 Outdoor decorative items
130 A 13003 Indoor functional item
130 A 13004 Outdoor functional item
130 A 13005 Wearable item

Ribbon Awards: Champion, Reserve Champion, Blue, Red, and White

BANNERS 4-H/FFA/FCE

Department 140

Superintendent: Dorothy Schaake

Special Rules

1. Read General Rules. Banners must be pre-entered by June 30.
2. Entries should illustrate a phase of 4-H work being practiced by the club's members.
3. Exhibitors should avoid using copyrighted and/or trademarked materials whenever possible by originating his/her own work.
4. Banners should be made of flame-resistant 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.
5. Banners are to be no less than 12 and no more than 16 square feet, with a minimum of 3 feet on one side.
6. Banners must be hung on a rod strong enough to support the banner. On each end of the dowel stick, there must be a wire or chain 6" long. One end of the wire will be fastened to the end of the dowel. The other end will be connected to an "S" hook which will permit the banner to be hung from a suspended wire. Banners mounted any other way will not be displayed due to technical problems.
7. A label is to be attached to the front lower left hand corner of the banner giving the name of the club, county, and year.
9. Criteria sheet available at the Douglas County Extension Center.
10. A champion and reserve champion will be chosen.

140 A 14001 4-H Banner
140 A 14002 FFA Banner
140 A 14003 FCE Banner

Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red, and White

CLOTHING 4-H

Department 150

Superintendents: Sue Ashcraft Jennifer Mitchell
 Margaret Kalb Kim Gabriel
 Michelle Jennings

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. ALL JUDGING FOR THIS DIVISION EXCEPT WINDOW DISPLAY WILL TAKE PLACE ON MONDAY, JULY 21. However, to receive the ribbon and premium money the 4-H'er must bring the exhibit to the Fair and enter it on Tuesday, July 29 during exhibit entry time. At that time the ribbon placing will be awarded based on judging from July 21. During the judging on July 21, the 4-H'er will have an opportunity to participate in an interview judging for Constructed and Purchased Outfits, Sewing for Fun and Educational

Exhibits. If unable to attend they may have another 4-H'er, their leader, or a parent bring their exhibit to be judged. In addition to this they may participate in the Fashion Revue judging. The 4-H'er must be present to participate in this as they are required to model their outfit. DETAILS WILL BE AVAILABLE IN A SPECIAL MAILING.

3. A 4-H'er may enter 3 clothing exhibits per age level for Construction, 3 per age level for Purchased Outfits, and 2 Educational Exhibits.

Constructed Article, Garment or Outfit: Any thing can be exhibited here that the 4-H'er has hand or machine sewn for themselves or others.

Purchased Outfits: the majority of the outfit must be owned (not borrowed) by the 4-H'er. The 4-H'er should be actively involved in selecting, purchasing, and coordinating the outfit.

Educational Exhibit: can be a poster (no larger than 22 x 28 inches), notebook, or other display (not larger than 12 inches high, 12 inches deep, and 18 inches long showing and describing something learned, a project activity done, a clothing and textile community service program, etc. Name and club must be clearly marked. There are classes for both individual and group exhibits.

Sewing For The Community: entries must include a 3 x 5 index card with a brief explanation of your entry. There is no State Fair Class and no Champion will be given.

This is a class for individual or group exhibits. Club name must be clearly marked. **Note:**

Project Linus Quilts should be entered in this class.

Sew 'N Go: this class is for any garment or item that was constructed by the 4-H'er for a unique purpose and meant for limited use (i.e. a Halloween costume, performance costume, holiday decoration, special event outfit, etc.) It will be judged by construction standards that support its use. Creativity and suitability for the occasion are the basic criteria for the judging.

4. Garments may be worn before exhibiting but should be carefully laundered before bringing to the Fair. If soiled, they will not be displayed.
5. Identification Labels:
 - a. Type or print on a 3 x 2 1/2 inch piece of cloth: class number-county-name -club.
 - b. Sew or safety pin labels on inside of garment (back of neck, center back of waistband, or left bottom corner). Label each piece.
 - c. Place entry form on front left shoulder seam of garment or to the left side of waistband with hanger opening facing to the right as if you were wearing the garment.
6. Champion and Reserve Champion entries in each age division will compete for Grand and Reserve Grand Champion in Clothing Construction, Purchased Garments for Young Women, and Purchased Garments for Young Men. All individual educational exhibits will compete for one Champion and one Reserve Champion. There will be no Champion for Sewing For Fun.
7. At State Fair a 4-H'er may enter a maximum of two exhibits in this division. One constructed piece and one educational exhibit.

Constructed Article, Garment or Outfit

- | | |
|-------------|--|
| 150 A 15001 | 7-8 year old 4-H'ers |
| 150 A 15004 | 9-11 year old 4-H'ers |
| 150 A 15007 | 12-14 year old 4-H'ers |
| 150 A 15010 | 15-19 year old 4-H'ers |
| 150 A 15015 | Sew 'N Go (All Ages) Individual Exhibit |
| 150 A 15016 | Sewing for Community Service (All Ages) – Group or Individual Exhibit (Project Linus Quilts) |

Purchased Outfit for Young Women

- | | |
|-------------|------------------------|
| 150 B 15017 | 7-8 year old 4-H'ers |
| 150 B 15020 | 9-11 year old 4-H'ers |
| 150 B 15023 | 12-14 year old 4-H'ers |
| 150 B 15026 | 15-19 year old 4-H'ers |

Purchased Outfit for Young Men

- | | |
|-------------|-----------------------|
| 150 C 15031 | 7-8 year old 4-H'ers |
| 150 C 15034 | 9-11 year old 4-H'ers |

- 150 C 15037 12-14 year old 4-H'ers
- 150 C 15040 15-19 year old 4-H'ers

Educational Exhibit

- 150 D 15045 Educational Exhibit (All Ages) - Individual
- 150 D 15046 Educational Exhibit (All Ages) - Group Exhibit
- Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red, and White
- Overall Grand Champion, Overall Reserve Grand Champion

FASHION REVUE:

The judging will be held July 21 and the Public Revue will be held on July 22. A 4-H'er must participate in the judging to be eligible to participate in the Public Revue. All 4-H'ers enrolled in a Clothing project are encouraged to participate. There will be four age levels for each of the following: Constructed, Purchased Outfit for Young Women, and Purchased Outfit for Young Men. A 4-H'er may model three outfits in each age level. The majority of the outfit must be owned (not borrowed) by the 4-H'er. A Champion and Reserve Champion will be selected in each of the four age levels for all three sections. The Champions in Level IV, (15 and over) in each section will represent Douglas County at the State Fair. For exact times and details of this event refer to the special mailing in June.

Fashion Revue Construction

- 150 F 15101 Level I Construction
- 150 F 15104 Level II Construction
- 150 F 15107 Level III Construction
- 150 F 15110 Level IV Construction
- 150 F 15111 Sewing for Another Person (All Levels) Not Eligible for Level Champions

Fashion Revue Buymanship Young Women

- 150 G 15113 Level I Buymanship Young Women
- 150 G 15116 Level II Buymanship Young Women
- 150 G 15119 Level III Buymanship Young Women
- 150 G 15122 Level IV Buymanship Young Women

Fashion Revue Buymanship Young Men

- 150 H 15125 Level I Buymanship Young Men
- 150 H 15128 Level II Buymanship Young Men
- 150 H 15131 Level III Buymanship Young Men
- 150 H 15134 Level IV Buymanship Young Men

CROPS 4-H/FFA

Department 170

Superintendents: Gary Saathoff
 Jamie Knabe

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Products exhibited in this division must have been grown by the member in the current year, with the exception of soybean seed and edible field bean seed.
3. Exhibits should be as mature as possible.
4. An exhibitor may show one exhibit in each of four classes.
5. Every entry must be identified by hybrid or variety name.
6. 4-H'ers are encouraged, but not required, to sign up for consultation judging on one (1) entry. All exhibits in this division must be entered at this time.

Corn - Ten Ear Exhibit

- 170 A 17001 White - Variety or hybrid must be named.
- 170 A 17002 Yellow - Variety or hybrid must be named.

Sorghum - 10 head exhibit

- 170 B 17003 Hybrid grain sorghum - Hybrid must be named.

170 B 17004	Hybrid forage sorghum - Exhibit to consist of the entire plant; no roots. Hybrid must be named.
170 B 17005	Other forage sorghums - Exhibit to consist of the entire plant; no roots. Variety must be named.
	Sunflowers -
170 C 17006	Confectionery heads - 3 heads must be submitted
170 C 17007	Confectionery seeds in jar - 1 gallon jar must be submitted
170 C 17008	Oil seed heads - 3 heads must be submitted
170 C 17009	Oil seeds in jar - 1 gallon jar must be submitted
	Wheat - One Gallon Sample
	Note: All classes calling for a gallon sample, wheat, oats, barley, alfalfa, brome grass, soybean or edible field bean, may have a 2 1/2-3 inch diameter cylinder placed in a glass gallon container to reduce the amount of grain to about three quarts.
170 D 17010	Soft red winter wheat - Variety or hybrid must be named.
170 D 17011	Hard red winter wheat - Variety or hybrid must be named.
170 D 17012	Hard white wheat - Variety or hybrid must be named.
	Other Crops - Note: Exhibit to consist of one gallon sample. Variety must be named.
170 E 17013	Oats
170 E 17014	Barley
170 E 17015	Alfalfa
170 E 17016	Alfalfa: Exhibit to consist of one flake or slice from a rectangular bale, or a 10 inch section cut from a round bale. The flake or slice should be approximately 6 inches in thickness and tied in two directions. Variety must be named.
170 E 17017	Brome Hay: Ten inch flake or slice, six inches thick and tied in two directions. Variety must be named.
170 E 17018	Brome Grass Seed: Exhibit to consist of one gallon sample of seed
170 E 17019	Other Tame Grasses: Exhibit to consist of one gallon sample of seed.
170 E 17020	Soybeans: one gallon sample of seed, 2006 or 2007 project. Variety must be named.
170 E 17021	Soybeans: Bundle of five plants grown in 2008. Variety must be named.
170 E 17022	Edible field beans: one gallon sample of seed 2006 or 2007 project.
170 E 17023	Edible field beans: Bundle of five plants grown in 2008.
170 E 17024	Miscellaneous Crops: Exhibit to consist of one gallon sample of seed or 10 heads produced from current project. Variety must be named.
	Educational Exhibit - Wheat, Weed Control, Soybean
170 F 17025	Educational Exhibit
Ribbon Awards:	Champion, Reserve Champion, Purple, Blue, Red, and White Grand Champion, Reserve Grand Champion

ELECTRIC/ELECTRONICS 4-H

Department 180

Superintendent: Johnathon Berg

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Consultation judging offered from 5:00-7:00 p.m. on Tuesday, July 29, but not required.
3. Carefully read the judging sheet for Electric/Electronic projects and be certain that your project meets each and every one of the judging criteria.
4. Exhibitor may enter no more than one article in each class.
5. Articles that have been in use should be cleaned for exhibit.
6. A sheet of operating instructions must be furnished for any exhibit not self explanatory.
7. Exhibit must be operable. If battery power is required, batteries must be furnished.

8. Any project with a complexity of size or electronics must have (a) instructions for assembly and use and (b) equipment available at the time of judging for actual testing of the exhibit.
9. Be certain that in performing any soldering operations that the iron is hot enough and that the joint is heated long enough so that the solder will flow properly through the joint. A sufficient duration of applying the heat is also necessary to burn out excess resin.

180 A 18001 AC Electric Projects – Electric projects with a 110 or 120 V alternating current (AC) power source. Some project examples are household wiring demonstrations, small appliances extension cords, trouble lights, indoor or outdoor wiring boards, or shop lights. Projects may be a restoration or original construction. The project must be operational and meet minimum safety standards. AC projects must be 110/120 V no 240 V exhibits are allowed, and must be constructed such that the judges have access to examine the quality of workmanship.

180 A 18004 DC Electric Projects – 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 doorbells switches. All DC electric projects must work with batteries supplied by 4-H'er. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.

180 A 18007 Electronics Projects – Electronic projects with a battery or direct current power source. This class includes electronic kits or original projects. Examples include radios, telephones, toy robots, light meters, security systems, etc. May be constructed using printed circuit board, wire wrap, or breadboard techniques. Include instruction/assembly manual if from a kit. Include plans if an original project. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.

180 A 18010 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 such as posters or displays of wire types, conduit types, electrical safety, tool or motor parts identification or electrical terminology. Educational displays and exhibits must be legible from a distance of four feet.

Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red, and White
Grand Champion, Reserve Grand Champion

ENTOMOLOGY 4-H/FFA

Department 190
Superintendents:

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Please bring Entomology exhibits to the check-in area from 5:00-7:00 p.m. on Tuesday July 29.
3. The judge will review all exhibits with 4-H'ers during a group consultation at 7:00 p.m. on Tuesday, July 29. Meet the judge and superintendent at the exhibit area.
4. All entries are to be placed in Plexiglas covered, wooden boxes with outside measurements of 18 x 24 x 3 1/2 inches. See the specific phase for box and specimen number limitations.
5. Each exhibitor is required to identify each box by placing an identification label bearing exhibitor's name and county and the class. Identifications labels are available at the Extension Office. 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. (See illustration in revised 4-H Entomology Check Sheet for State Fair Competition, 4-H 518).

6. The number of orders, specimens (and families where required) must be included on the exhibitor's box identification label.
7. Emphasis in judging will be placed on the overall variety of Kansas insects represented in the collection, accuracy of identification, skill and technique acquired in mounting of specimens, and overall arrangement and appearance of the collection.
8. For each collection class, two labels will be centered on the pin beneath each specimen. First (closest to the specimen) is the common name label and the second label is a date/locality label.
9. **EDUCATIONAL CLASSES** - Educational displays are to be exhibited in one standard size insect box and identified by use of an identification label as discussed above. It is to include the exhibitor's name, county, and class. Information on numbers and kinds of insects is not needed for educational exhibits.
Displays may consist of specialized groups of insects, or relate to any aspect of insect life. Displays should be presented in a clear, concise, and interesting manner.
 1. Educational classes are limited to one standard box, a maximum of 150 specimens, and work performed during the current year. Title of the exhibit should be indicated inside the box.
 2. Purpose of the project is to learn more about the importance, life cycles, biology, ecology, diversity, etc. of insects and related arthropods. Subject matter can be as varied as the insects themselves.

INTRODUCTORY ENTOMOLOGY

- 190 A 19001 Insect collection of at least 6 orders, including 15-30 species to be shown in two cigar boxes and grouped according to order. Insect names are not necessary on individual specimens but date/locality labels are required. (No State Fair class.)

BEGINNING ENTOMOLOGY I

- 190 B 19004 Beginning I Educational Exhibit
- 190 B 19005 Collection - Display in one standard box a minimum of 50 and maximum of 125 species representing at least 7 orders. Follow the special rules listed for all collections. Specimens should be grouped according to order with the order labels pinned to the base of the box. 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.

BEGINNING ENTOMOLOGY II

- 190 C 19008 Beginning II Educational Exhibit
- 190 C 19009 Collection - Display in one standard box a minimum of 75 and a maximum of 150 species representing at least 9 orders. Follow special rules #1 through #7 listed for all collections. Specimens should be grouped according to order. Order labels should be pinned to the base of the box. Members can exhibit in this class a maximum of 3 years, or until they receive a purple ribbon in the beginning phase at the Kansas State Fair, whichever comes first.

INTERMEDIATE ENTOMOLOGY

- 190 D 19012 Intermediate Educational Exhibit
- 190 D 19013 Collection - Display a minimum of 100 and a maximum of 300 insects representing at least 10 orders. Two standard boxes can be used. All specimens should be grouped to order; in addition, family identification is required for all insects in any two of the following six orders: Orders of Orthoptera, Hemiptera, Homoptera, Coleoptera, Diptera and/or Hymenoptera. The number of families in these orders must be recorded on the box identification label. Families represent subdivisions of order groupings, and family labels will be pinned to the bottom of the box to represent subdivisions of the appropriate order.

ADVANCED ENTOMOLOGY

190 E 19016

Advanced Educational Exhibit

190 E 19017

Collection - Display a minimum of 150 and a maximum of 450 insects representing at least 12 orders. Three standard boxes can be used. Family identification is required for all insects belonging to the six basic orders as outlined under the Intermediate phase. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained. All butterflies appearing in the collection should be labeled with the correct common name. 4-H members may exhibit in this class for an unrestricted number of years. List on the back of the box what you did this year to improve your project.

Ribbon Award:

Champion, Reserve Champion, Purple, Blue, Red, and White
Grand Champion, Reserve Grand Champion

FLOWERS 4-H/FFA

Department 200

Superintendent: Karen Pendleton

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. The following classes shall be entered on Tuesday, July 29, 8:00-10:00 a.m. 4-H'ers are encouraged, but not required, to sign up for consultation judging on one (1) entry. All exhibits in this division must be entered at this time.
3. Exhibits shall be made from flowers grown and collected rather than purchased by the exhibitor. Houseplants must be cared for by the exhibitor for a minimum of 6 months.
4. Cut flower entries should be in clear containers sized in proportion to the specimen.
5. Exhibitor limited to a total of 8 entries with no more than 2 entries per class.
6. Arrangements should not take over one square foot of table space.
7. Flower arrangements shall be made from materials and flowers grown and collected by the exhibitor. Arrangements can be made from fresh or dried flowers.
8. Exhibits will be placed in the Danish system.
9. Participants 7-19 years of age are eligible for State Fair.

JUNIOR DIVISION - 7-9 years old.

200 A 20001

Garden flower, single stem, annual.

200 A 20002

Garden flower, single stem, perennial.

200 A 20003

Flower arrangement, fresh flowers.

200 A 20004

Flower arrangement, dried plant material, no fabric or plastic material.

JUNIOR, JUST FOR FUN - No State Fair Classes

200 B 20005

House Plant, foliage or flowering

200 B 20006

Cactus Garden containing two or more varieties

200 B 20007

Roses, three blooms of one variety

200 B 20008

Largest tame sunflower

200 B 20009

Sweet potato growing in water

200 B 20010

Egg carton garden

200 B 20011

Terrariums

200 B 20012

Small pleasure - any miniature design measuring 5 inches or less in all directions.

200 B 20013

Picture Pot - Hand painted, clay pot, designed by 4-H'er containing live plant material.

INTERMEDIATE and SENIOR DIVISION - 10-18 years old.

200 C 20013

Garden flower, single stem, annual.

200 C 20014

Garden flower, single stem, perennial.

200 C 20015

Flower arrangement, fresh flowers.

200 C 20016

Flower arrangement, dried plant material, no fabric or plastic material.

INTERMEDIATE and SENIOR, JUST FOR FUN - No State Fair Classes.

200 D 20017	House Plant, foliage or flowering
200 D 20018	Cactus Garden containing two or more varieties
200 D 20019	Roses, three blooms of one variety
200 D 20020	Largest tame sunflower
200 D 20021	Sweet potato growing in water
200 D 20022	Egg carton garden
200 D 20023	Terrariums
200 D 20024	Small pleasure - any miniature design measuring 5 inches or less in all directions.
200 D 20025	Picture Pot- Hand painted, clay pot, designed by 4-H'er containing live plant material.
Ribbon Award:	Champion, Reserve Champion, Purple, Blue, Red, and White Grand Champion, Reserve Grand Champion

FOODS 4-H

Department 210

Superintendents: Twilla Brown
Jan Hornberger
Lori Queen

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Judging of all Food entries (classes 210 A 21001-210 F 21043) will be on Monday, July 28, from 2:00-7:00 p.m.
3. At 4-H Foods check-in, 4-H'ers are encouraged, but not required, to sign up for consultation judging of one food entry. Consultation judging will take place during the judging on Monday from 2:00-7:00 p.m.
4. The Fair officials reserve the right to hold any food preparation exhibits to be used in exhibition. Other exhibits in this division, except the food gift packages, will be priced and sold after the judging. One piece or one part of these food exhibits will be kept for display. (See Food Sale in this division.)
5. 4-H exhibitors (individual or group) should avoid using copyrighted materials whenever possible by originating his/her own work. 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.
6. A 4-H member may exhibit three non-perishable food entries per age bracket, one Educational Exhibit, one of the four Cooking for Fun classes, plus one Extreme Makeover entry. Plus, each 4-H club may exhibit one Group Educational Exhibit. COPIES OF THE COMPLETE RECIPES WITH INGREDIENTS AND INSTRUCTIONS ARE REQUIRED FOR ALL NON-PERISHABLE FOOD PRODUCT EXHIBITS, COOKING FOR FUN, AND EXTREME MAKEOVER (BOTH ORIGINAL RECIPE AND MODIFIED RECIPE) OR THE PLACING WILL BE LOWERED ONE RIBBON WHEN JUDGED. ATTACH THE RECIPE AND THE SOURCE OF THE RECIPE TO THE OUTSIDE OF THE WRAPPED EXHIBIT. Recipe may not be returned.

Ready-to-eat or bake'n-serve cakes, pies, cookies, muffins, etc. are unacceptable. Food item needs to be prepared and/or assembled by the 4-H'er. A master mix (i.e. gifts in a jar, soup mix, etc.) is not considered a nonperishable food product. They are acceptable in Cooking for Fun (a Decorated Food Item or in a Food Gift Package).

Any **Non-perishable Food Product** from the 4-H Foods and Nutrition Curriculum or similar recipe may be entered. For food safety purposes, any food with custard and cream cheese type fillings and frostings (includes canned cream cheese frosting), flavored oils, "canned" bread or bread or cakes in a jar, or food requiring refrigeration will not be accepted. For information to help you make informed, safe food exhibit decisions refer to K-State

Research and Extension publication *4-H 712, Food Safety Recommendations for Acceptable Fair Exhibits*. PERISHABLE ITEMS WILL NOT BE ACCEPTED. FRUIT AND PECAN PIES ARE ACCEPTABLE.

Cooking for Fun - Classes include: Food Gift Package, Specialty Food Product, A Decorated Food Item, and Any Other Food Product (see explanations below).

Food Gift Package - is considered a non-perishable food product, not an educational exhibit. A food gift package must contain at least 3 different food items (prepared for human consumption), prepared by the 4-H'er, in a suitable container no larger than 18" x 18" x 18". Prepared food items must have recipes attached with the entry. Additional homemade food items beyond the 3 minimum, or purchased items may also be included in the gift basket. On the back of the entry card, answer these questions: a) what is the intended use; b) what food safety precautions were taken during and after preparation? No alcoholic beverages will be accepted.

Specialty Food Product - is considered a non-perishable food product, not an educational exhibit. Must be prepared for human consumption. Must have recipes attached with the entry. 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? No alcoholic beverages will be accepted.

A Decorated Food Item - must be a non-perishable food item (edible or non-edible), not a decorated box. Non-edible food items can not be exhibited at the State Fair. Decorated cakes will not be tasted. Only the decoration will be judged.

Any Other Food Product - any 4-H'er enrolled in a Foods and Nutrition project may exhibit a non-perishable product not included in the 4-H Foods and Nutrition Curriculum.

Educational Exhibit - Educational exhibits must show and describe something learned, a project activity done, a food-nutrition community service program, etc. Name and county of the exhibitor must be clearly marked on all educational exhibits. The exhibitor may attach an index card, no larger than 3 x 5 inches with the entry form to give the judge any information which the exhibitor thinks would be helpful for the judge to know. Using a larger card will result in the exhibit being lowered one ribbon placing.

Classes include: a poster, a notebook, a place setting, other educational display, or group educational exhibit (see explanations below). NOTE: A collection of your favorite recipes in a recipe box does not constitute an educational exhibit.

Poster - no larger than 22 x 28 inches

Notebook - can be a 3-ring, spiral, folder, etc.

Place Setting - a place setting for one, no larger than 4 square feet, excluding the centerpiece and menu. Include place setting and menu for a well-balanced meal or snack. Must be consultation judged and set up in front of the judge. (The 4-H'er will check-in during 4-H Foods Check-in and sign-up for consultation judging. He/she will keep the place setting in his/her possession until called for consultation judging.) Place settings can not be exhibited at the State Fair.

Other Educational Display - must be no more than 12 inches high by 12 inches deep and 18 inches long.

Extreme Makeover - must be a non-perishable food product and must be prepared for human consumption. For health, modify the recipe by: reducing the fat, sugar, or sodium by at least one-quarter to one-third of the original recipe, and/or substituting for a more nutritionally acceptable ingredient, and/or eliminating an ingredient completely. Both the original and modified recipes must be included with exhibit.

Group Educational Exhibit - in addition to individual educational exhibits, each 4-H Club can enter one educational exhibit as a group. Follow above rules for educational exhibits.

7. 4-H'ers are encouraged to use whole grain flours, fruits, nuts, etc.
8. Quick breads do not contain yeast.
9. Entire product must be entered and uncut such as loaves, cakes, coffee cakes, tea rings, tarts, etc. Mini loaves (3 x 6 x 2 inch or smaller) will not be allowed, except in the Cooking For Fun classes.
10. Exhibit 3 cookies, 3 rolls, 3 muffins, 3 biscuits, 3 cupcakes, etc. Must be the same shape and same recipe. Mini muffins will not be allowed, except in the Cooking For Fun classes.
11. Any baked product that can be removed from the pan should be placed on paper plates or covered cardboard cut to fit the size of the exhibit; otherwise exhibit in a disposable container. Fruit and pecan pies may be exhibited in a disposable or donated regular bake

ware pie plate. Since space is limited, use small paper plates when possible. Only the exhibit is judged; the container is not judged.

12. All unfrosted cakes should be exhibited in an upright position with top crust showing when it comes out of the oven, except for those cakes made with special designs such as Bundt cakes. They should have top crust side down.
13. Attach oval white and green gummed label to bottom of plate or cardboard. Labels are available at the Douglas County Extension Office.
14. All exhibits must be in FOOD PLASTIC BAGS OR PLACED IN A PLASTIC DISPOSABLE CONTAINER. (Plastic containers can purchased in the bakery department at local supermarkets.)
15. Carefully staple or tie (no tape please) the entry form to the outside of the wrapped exhibit. The exhibitor may attach a 3 x 5 inch index card with the entry form to give the judge any information which the exhibitor thinks would be helpful for the judge to know.
16. Champion and Reserve Champion exhibits will compete for overall Grand Champion and Reserve Grand Champion in Non-Perishable Food Products, Cooking for Fun, and Educational Exhibits. (Group Educational Exhibits do not qualify for Grand or Reserve Grand Champion awards.)
17. Best of Breads award will be presented to the top overall bread entry.
18. A 4-H member may make only one entry in a non-perishable class and one entry in an educational class in the Foods and Nutrition Division for the Kansas State Fair.
19. There are no State Fair classes for 7, 8, and 9 year old exhibitors.

7-8 year old 4-H'ers

- 210 A 21001 A Non-Perishable Food Product (limit of 3)
- 210 A 21004 Cooking for Fun (limit of 1)
- 210 A 21007 Educational Exhibit (limit of 1)
- 210 A 21009 Extreme Makeover (limit 1)

9-11 year old 4-H'ers

- 210 B 21010 A Non-Perishable Food Product (limit of 3)
- 210 B 21013 Cooking for Fun (limit of 1)
- 210 B 21016 Educational Exhibit (limit of 1)
- 210 B 21018 Extreme Makeover (limit 1)

12-14 year old 4-H'ers

- 210 C 21019 A Non-Perishable Food Product (limit of 3)
- 210 C 21022 Cooking for Fun (limit of 1)
- 210 C 21025 Educational Exhibit (limit of 1)
- 210 C 21027 Extreme Makeover (limit 1)

15-19 year old 4-H'ers

- 210 D 21028 A Non-Perishable Food Product (limit of 3)
- 210 D 21031 Cooking for Fun (limit of 1)
- 210 D 21034 Educational Exhibit (limit of 1)
- 210 D 21036 Extreme Makeover (limit 1)

Group Educational Exhibit

- 210 F 21043 4-H Club Educational Exhibit
- Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red and White
Grand Champion, Reserve Grand Champion
-

FOOD SALE 4-H/Open

Superintendent: Lori Krysztof

1. The food sale will be held on Tuesday from 2:00 p.m. to 7:00 p.m. and on Wednesday from 10:00 a.m. to 12 noon in the Building 21 Kitchen.
2. No canned goods, Food Gift Packages, or Dried Foods will be sold.
3. Entries cannot be reserved for any specific buyer.
4. Prices will be posted.
5. All proceeds will go to benefit the Douglas County 4-H program.

FOOD PRESERVATION 4-H

Department 220

Superintendents: Twilla Brown
Jan Hornberger
Lori Queen

In recognition of youth who excel at the art of fresh preserving (canning), Jarden Home Brands who bring you Ball® & Kerr® Fresh Preserving Products will present First Place Awards in designated recipe categories.

Judges will select the best entry submitted by a youth in Fruit, Vegetable, Pickle and Soft Spread. Entries must be preserved in Ball® or Ball® Collection Elite® Jars sealed with Ball® Lids and Bands or Ball® Collection Elite® Lids and Bands or preserved in Kerr® Jars sealed with Kerr® Lids or Bands. In addition, soft spreads entries will be limited to those prepared using one of the Ball® Pectin: Regular, No Sugar Needed, or Liquid. A proof of purchase for Ball® Pectin must be provided at time of entry.

The best entry from each category will receive the following:

- One (1) five dollar coupon (\$5.00) for Ball® or Kerr® Fresh Preserving Products and one (1) three-dollar (\$3.00) Coupon for Ball® Pectin Products.

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Entries will be received on Monday from 2:00 p.m. to 7:00 p.m. At 4-H Food Preservation check-in, 4-H'ers are encouraged, but not required, to sign up for consultation judging. Consultation judging of all Food Preservation entries (220 A 22001-220 A22019) will on Monday from 5:00 p.m. to 7:00 p.m.
3. No Frozen Food may be exhibited.
4. Exhibits must have been preserved since the previous year's county fair and not been exhibited at the previous State Fair.
5. A 4-H member may exhibit up to three classes, limited to two entries per numbered class. (The two entries must be different.) The first six numbered classes require one jar for each class. Dried Foods - one kind of dried food product; to be in small jar, clear plastic bag, or other "see-through" container. Suggested amount: 1/3-1/2 cup, or 3-4 pieces per exhibit.
6. EACH EXHIBIT MUST HAVE THE COMPLETE RECIPE AND INSTRUCTIONS ATTACHED, OR IT WILL BE LOWERED ONE RIBBON PLACING.
7. For information to help you make informed, safe food preservation exhibit decisions, refer to K-State Research and Extension Publication, 4-H 712, Food Safety Recommendations for Acceptable Fair Exhibits.
8. Recommended method of processing must be used. Follow guidelines in K-State Research and Extension Food Preservation publications or USDA's Complete Guide to Home Canning. Open kettle processed foods will not be accepted. Pickles and sweet spreads must be finished using the water bath process. Low acid products must be pressure processed properly for the altitude residence. The label must include the canning method (water bath or pressure), process time, and amount of pressure (psi) when pressure canning method is used.

9. All dried products must include the recipe and preparation steps. All meat jerky must be cooked to 160 degrees F. before drying. Jerky not heated to 160 degrees F will not be judged.
10. Exhibits must be sealed in non-decorated, clean standard canning jars with matching brand (use Ball lids on Ball jars, or Kerr lids on Kerr jars, etc.) Two-piece lids. Jars must be sealed when entered. Jelly must be in one-half pint or pint jars. All other products must be in pint or quart jars.
11. Each jar exhibited must be labeled with uniform labels available from the Douglas County Extension Center. Place the label one inch from the base of jar. Label must not cover brand name of jar. The label must give: Class No., Division, Product, Canning Method (water bath or pressure), Process Time, Amount of Pressure (psi) when pressure canning method is used, Name, Address, and County.
12. Attach the entry form with tape to the top of the jar. The exhibitor may also attach an index card, no larger than 3 x 5 inches with the entry form to give the judge any information which the judge should know. Using a larger card will result in the exhibit being lowered one ribbon placing.
13. Champion and Reserve Champion exhibits will compete for Grand Champion and Reserve Grand Champion.
14. A 4-H member may enter up to two exhibits, but may make only one entry per class, in the Food Preservation Division for the Kansas State Fair.

220 A 22001	Sweet Spreads
220 A 22004	Fruits and Juices
220 A 22007	Tomato/Tomato Products
220 A 22010	Low Acid Vegetables (green beans, corn, etc.)
220 A 22013	Pickles and Relishes
220 A 22016	Meats(include recipe and preparation steps)
220 A 22019	Dried Foods
Ribbon Awards:	Champion, Reserve Champion, Purple, Blue, Red, and White Grand Champion, Reserve Grand Champion

FORESTRY 4-H/FFA

Department 230

Superintendent:

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Consultation judging offered in this division from 5:00-7:00 p.m., Tuesday, July 29. You may discuss your forestry activities and plans, visit with the judge about your exhibit and ask questions about your forestry project goals.
3. All exhibits must be mounted on 8 1/2" x 11" heavy stock paper and placed in loose leaf binders. (Magnetic or adhesive filler sheets for photographic prints are recommended.)
4. Name, club, age and year in project should be on front cover or in a prominent location.
5. Leaves should be identified with an appropriate label located near the leaf on the same page. These labels should include (1) the proper common name as listed in the 4-H Bulletin 334. "List of Native Kansas Forest Trees"; (2) location (city and/or county) where collected; and (3) date (day, month, year) collected. Be consistent with the location of the labels in your notebook (consider the lower right-hand corner).
6. For ideas on mounting, see the Forestry Project booklet (4-H 279).
7. Junior Forester - exhibit only in phases(s) enrolled.
8. Senior Forester enrolled in Self-Determined can enroll in Senior Forester Division at the State Fair.
9. New specimens are those specimens collected during the current 4-H year.
10. Have samples grouped according to the year (such as "old-previous" and "new").
11. Variations of varieties do not count as different species or specimens.

JUNIOR 4-H FORESTER

- 230 A 23001 **Beginning** - (Choose either A or B)
A. Exhibit a minimum of 10 different leaves from native Kansas Trees collected within the year. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.
B. Exhibit a minimum of 5 native Kansas trees showing leaf, twig and fruit from each species collected.
- 230 A 23002 **Intermediate** - (Choose either A or B)
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.
B. Exhibit a minimum of 10 native Kansas trees showing leaf, twig and fruit from each species collected. This exhibit must include 5 new leaf, twig and fruit specimens.
- 230 A 23003 **Senior** - (Choose either A or B)
A. Exhibit a minimum of 30 different leaves (including 10 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.
B. Exhibit a minimum of 15 native Kansas trees showing leaf, twig, and fruit from each species collected. This exhibit must include 5 new leaf, twig and fruit specimens.
- 230 A 23004 **Advanced** - (Choose either A or B)
A. Exhibit a minimum of 40 different leaves (including 20 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.
B. Exhibit a minimum of 20 native Kansas trees showing leaf, twig and fruit from each species collected. The exhibit must include 10 new leaf, twig and fruit specimens.
- 230 B 23007 **How A Tree Grows**
Display - Entry may include project notebook with 10 or more seeds collected with pictures showing germination study or a mounting of a thin section of wood cut from the end of a log or top of stump labeled with information such as kind of wood and age of tree when cut or exhibit an illustration of a how a tree grows.
- 230 B 23008 **Tree Appreciation**
Display - Entry may include a research or reporting notebook with no more than 10 pages based on the exhibitor's selected tree. This notebook may include sketches, drawings, pictures, a story, or any other things which will help tell about the tree you have selected. Junior Forestry Record (P-1089) is the reference manual for this project.
- 230 D 23013 **SENIOR 4-H FORESTER**
Growing and Protecting Trees
Display requires project notebook telling about project and pictures before, during, and after planting seedlings.
- 230 D 23014 **Tree Culture**
Display requires project notebook showing your project work and includes pictures before, during and after wood lot improvement.
- 230 D 23015 **How Forests Serve Us**
Display collected wood samples (all or partial) and 500 word essay. Wood sample display to be mounted on poster board or any stiff material no larger than 2' wide x 3' high. Essay should be displayed in a covered binder.
- 230 D 23016 **Educational/Creative Exhibit**
Exhibit must be directly related to tree identification or Forestry. Type of exhibit is open (notebook, poster, collection box, etc.) given a maximum size of 2' x 3'. This is a good class to exhibit an unusual collection.
- Ribbon Award: Champion, Reserve Champion, Purple, Blue, Red, and White Grand Champion, Reserve Grand Champion
-

GEOLOGY 4-H

Department 240

Superintendent:

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Consultation Judging offered from 5:00-7:00 p.m., Tuesday, July 29.
3. Exhibit box should be 18 x 24 x 3 1/2 inches. Plexiglas covers are required at State Fair. All specimens are to be arranged across the narrow (18 inch) dimension of the exhibit box, making the exhibit 18 inches across the top and 24 inches deep exactly. IF A BOX HAS A SLIDING Plexiglas cover, IT MUST be removable from the top. Screws, locks, or other devices that would prevent judges from removing glass cover should not be used. Each exhibitor is required to identify each display box by placing an identification label bearing name, county, and number of specimens in the upper left hand corner of the Plexiglas (inside) and attaching a label with the same information to the back of the box (outside). The inside label is to also indicate the class number.
4. Exhibitor may enter in both geology and lapidary classes. Exhibitor may show in only one of the first six geology classes 24001, 24002, 24005, 24006, 24007, and 24008. Exhibitor may also show in geology class 2407 special exhibit and in lapidary.
5. Geology specimens should be labeled with the number of specimens, date collected, specimen name or description, and locality (county) where collected.
6. For the geology classes 24005, 24006, 24007, and 24008 specimens should be mounted in the box by proper groups: rocks, minerals, fossils.
7. For geology classes 24001, 24002, 24005, 24006, 24007, and 24008, all specimens must be collected 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.
8. 4-H members enrolled in Geology project 462 Intermediate phase are encouraged to exhibit in class 24009 Special Exhibit as well as class 24007 or 24008 to fulfill project completion requirements.

Introductory Class

240 A 24001 **Geology - for seven year old only**, (not a state fair class). Display 7 rocks, or minerals or fossils, or in any combination of rocks, minerals, and fossils. This is to be displayed on one core board with approximate size of 18"x 24"x 1/4". The labels to be used will be pre-designed and be available through the County Leader or the Extension Office. These labels are to be filled out in the 4-H members own handwriting, no typed or computer labels are to be used.

240 A 24002 **Geology - for eight and nine year olds** (not a state fair class) - may stay in two years, however 4-H member must have 12 rocks, or minerals, or fossils, or any combination there of, that have been found in the current 4-H year. This is to be displayed on one core board with approximate size of 18" x 24" x 1/4". The labels to be used will be pre-designed and be available through the County Leader or the Extension Office. These labels are to be filled out in the 4-H members own handwriting, no typed or computer labels are to be used.

Ribbon Award: Champion, Reserve Champion, Purple, Blue, Red, and White
Grand Champion, Reserve Grand Champion

Beginning Geology

240 B 24005 **Geology** - Display at least 5 rocks, 5 minerals, and 5 fossils collected during the current 4-H year. Limited to one exhibit box 18 x 24 x 3 1/2 inches with Plexiglas cover. Only those exhibiting at the Douglas County Fair in Beginning Geology for the first time may enter this class. Fossils must be identified to the Phylum level.

240 B 24006 **Geology** - Display at least 30 rocks, minerals, and fossils, at least 5 of each. Fifteen must be collected during the current 4-H year. Limited to one exhibit box 18 x 24 x 3 1/2 inches with Plexiglas cover. This class is open to those exhibiting either first or second time at the Douglas County Fair. Fossils must be identified to the Phylum level.

Intermediate Geology

240 B 24007

Geology - Display at least 45 rocks, minerals, or fossils, at least 5 of each. More than one specimen of the same kind of rock or mineral or species of fossil may be exhibited if this duplication represents different geological formations. Specimen label must show this distinction. (Fort Hays member limestone not just limestone; exact species must have different formation names listed on the I.D. card; Composita Brachiopod from Morrill Limestone member not just Brachiopod or Composita Brachiopod). Exhibit limited to two boxes 18 x 24 x 3 1/2 inches with Plexiglas cover. Exhibit must include approximately 15 specimens of current year's work. Rocks must be identified by their proper name and type. Fossils must be identified to the Phylum level. This class is open to those exhibiting either the third or fourth time at the Douglas County Fair.

240 B 24008

Geology - Display at least 60 rocks, minerals, or fossils, at least 5 of each. 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 member limestone not just limestone; exact species must have different formation names listed on the I.D. card; Composita Brachiopod from Morrill Limestone member not just Brachiopod or Composita Brachiopod). Exhibit limited to two boxes 18 x 24 x 3 1/2 inches with Plexiglas cover. Exhibit must include approximately 15 specimens of current year's work. Rocks must be identified by their proper name and type. Fossils must be identified to the Phylum, Class, and Genus levels if possible. This class is open to those exhibiting the fifth time or more at the Douglas County Fair.

Educational or Special Exhibit

240 B 24009

Special exhibit relating to everyday living; or to a mineral test, a rock formation, geological history, species of a fossil, forms of one mineral, a variation of one kind of rock, archaeological artifacts, or Indian artifacts. Exhibit limited to 4 feet of table space. Notebook should be included.

Ribbon Awards:

Champion, Reserve Champion, Purple, Blue, Red, and White
Grand Champion, Reserve Grand Champion

Lapidary - Lapidary will be judged on the following criteria: Workmanship and Content -60 points; Presentation and Showmanship - 30 points and Accuracy of Information - 10 points. An exhibition box smaller than the standard size may be used for the lapidary exhibits if appropriate (18 x 12 x 3 1/2 inches). Specimens should be arranged across the 18 inch dimension of the exhibit box, making the exhibit 18 inches across the top and 12 inches deep.

240 C 24012

Exhibit at least 6 gemstones and minerals that have received lapidary treatment. Lapidary treatment may consist of tumbling, polishing, and end or face or flat lapping. Specimens must represent at least 3 different gem stones and minerals and include at least 3 cabochons of any size or shape. Three of the specimens must be mounted. Label specimens as appropriate including locality (state) where originated. Exhibitor may also exhibit in any other geology class.

240 C 24013

Lapidary - Display at least 30 stones and minerals that will cut or polish. Five of the specimens must be collected by the member from the native site (not limited to Kansas). Polish 15 of the gemstones by tumbling. Label, giving identification of material and county where collected or state or country of origin, for non-Kansas material.

Ribbon Award:

Champion, Reserve Champion, Purple, Blue, Red, and White
Grand Champion, Reserve Grand Champion

HOME ENVIRONMENT 4-H

Department 250

Superintendent: Sue Ashcraft Kim Gabriel Michelle Jennings
Margaret Kalb Jennifer Mitchell

Special Rules

1. Read General Rules. Pre-enter by June 30.
 2. Consultation judging is offered from 5:00-7:00 p.m., Tuesday, July 29.
 3. A person may enter any number of the classes below but each item may be entered in only one class.
 4. Summary must be attached to the exhibit with safety pins(s) and string. The judge will consider application of home environment and design skills learned as noted on the summary sheet and demonstrated by the exhibit.
- 250 A 25001 Single Exhibit. An article made by the 4-H'er for the home. Attach a 3" x 5" index card explaining how the item was made or refinished, costs involved and why exhibitor chose to make or refinish item.
- 250 A 25002 Poster
- 250 A 25003 Notebook - Poster or notebooks may include swatches, colors, stories, photographs, and project records which detail what was accomplished this year with a given indication of long-term plans.
- 250 A 25004 Window Display - (No State Fair class) limited to a space no larger than 3' x 3' x 18" that depicts your project.
- Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red, and White
-

HORTICULTURE 4-H/FFA

Department 260

Superintendents: Gary Saathoff
Jamie Knabe

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. The following classes will be entered in Building 1. At check-in, 4-H'ers are encouraged, but not required, to sign up for consultation judging of one horticulture entry. Consultation judging will take place during the entry time on Monday, July 28, from 2:00-7:00 p.m.
3. A 4-H member may enter each class. The number of items for exhibit for any of the below classes is listed with the class. For further information, consult Exhibiting Fruits and Vegetables, KSU Extension Publication C 405.
4. All varieties should be named on entry.
5. The number of vegetables to be exhibited is as follows:
Large Vegetables: one each, watermelon, squash, large pumpkin, kohlrabi, gourds, eggplant, cabbage, cantaloupe.
Medium Vegetables: five each, cucumbers, decorative gourds, miniature pumpkins, tomatoes, carrots, beets, garlic, onions, peppers, okra, Irish potatoes, parsnips, sweet potatoes.
Small Vegetables: fresh, not frozen, such as green beans are used as one of the five different vegetables, a dozen is suggested for a good display.
Shelled Vegetables should not be exhibited.
Other Vegetables limit of 2 entries per exhibitor.
6. Garden Display - Exhibit consists of five different fresh vegetables. Canned vegetables are not acceptable. Only one variety of each type of vegetable may be exhibited. Quality and condition of exhibit will be considered. Choose vegetables for exhibit that will hold up well during the Fair. Avoid over-ripe or over-mature specimens. Those that are slightly under-ripe or slightly immature when picked may last longer.
7. Plate of Fruit. Exhibitor may make no more than three entries in this class. (Large fruit: 5 apples, pears, peaches, plums, bunches of grapes, etc. Small fruit: 12 raspberries, blueberries, etc.)

8. Educational Exhibit (can include notebook, poster, display, or other type of exhibit designed to inform viewer about horticulture project). The display will be limited to a maximum space of 2' x 2' x 3'. Maximum size will be strictly enforced. Poster size limited to 14" x 22". Basis of awards - Educational 40, interest and originality 20, appearance 20, and quality of display material 20.
9. 4-H'ers are encouraged, but not required, to sign up for consultation judging on one (1) entry.

- 260 A 26001 Garden Display
- 260 B 26002 Beans, green snap, 12
- 260 B 26003 Beans, yellow wax, 12
- 260 B 26004 Beets, table, 5
- 260 B 26005 Cabbage, 1
- 260 B 26006 Cantaloupe, 1
- 260 B 26007 Carrots, 5
- 260 B 26008 Cucumber, 5
- 260 B 26009 Eggplant, 1
- 260 B 26010 Garlic, 5
- 260 B 26011 Kohlrabi, 1
- 260 B 26012 Muskmelon, 1
- 260 B 26013 Okra, 5
- 260 B 26014 Onions, red, 5
- 260 B 26015 Onions, white, 5
- 260 B 26016 Onions, yellow, 5
- 260 B 26017 Peppers, bell, 5
- 260 B 26018 Peppers, Jalapenos, 5
- 260 B 26019 Peppers, other hot, 5
- 260 B 26020 Peppers, other, 5
- 260 B 26021 Potatoes, red, 5 (name variety)
- 260 B 26022 Potatoes, sweet, 5 (name variety)
- 260 B 26023 Potatoes, white or Russet, 5 (name variety)
- 260 B 26024 Pumpkin, 1
- 260 B 26025 Squash, summer, 1
- 260 B 26026 Squash, winter, 1
- 260 B 26027 Tomatoes, cherry type, 5
- 260 B 26028 Tomatoes, Roma type, 5
- 260 B 26029 Tomatoes, other, 5
- 260 B 26030 Tomatoes, Heirloom, 5
- 260 B 26031 Watermelon, 1
- 260 B 26032 Other vegetable

Ornamental

- 260 C 26033 Gourd, small - 5
- 260 C 26034 Gourd, large – 1

Other vegetables - Fruit

- 260 D 26035 Apples, 5
- 260 D 26036 Blueberries, 12
- 260 D 26037 Grapes, bunch, 1
- 260 D 26038 Peaches, 5
- 260 D 26039 Pears, 5
- 260 D 26040 Plums, 5
- 260 D 26041 Raspberries, 12
- 260 D 26042 Other Large Fruit, 5
- 260 D 26043 Other Small Fruit, 12

Herbs

- 260 E 26046 Fresh Culinary herb (6) Ex: Parsley, Basil, dill, etc. Six stems (or a comparable quantity) of ONE VARIETY of fresh herbs exhibited in a disposable container of water. Dried herbs are not accepted.

Horticulture Notebook – Entry shall consist of a notebook or three ring binder of written narrative describing a horticulture project such as a landscape design, landscape installation, lawn renovation, water garden, flower garden, vegetable garden, lawn mowing service, landscape maintenance business, farmer's market business, or other horticultural project. 4-Hers are encouraged to include photographs, illustrations and/or landscape drawings that help explain work done by the member. Photos taken from the same location before, during and after the completion of the project are particularly helpful.

Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red, and White
Grand Champion, Reserve Grand Champion

PHOTOGRAPHY 4-H

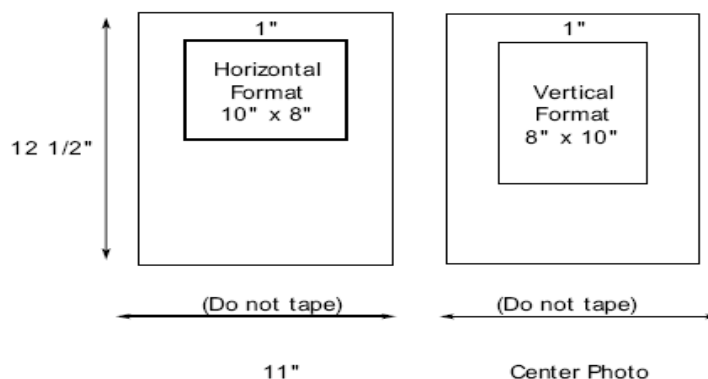
Department 290

Superintendent: Jane Getto

Liz Grillot

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Consultation judging is offered from 2:00-7:00 p.m., Tuesday, July 29, but not required for all classes.
3. Work may be done in color or black and white and must have been done in the current 4-H year. 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 color class.
4. Exhibitor limited to 2 entries in the photo classes and 2 entries in the computer enhanced classes, and no color mats (boards) may be used. Digital photos should be entered in the regular photo class.
5. Exhibitor's county, name, address, photo class number and location where photo was taken **MUST BE** written on the back of the entry (lower left corner). The 4-H entry tag should be taped to the back of the entry and hung over the front side.
6. Photos mounted with board horizontal will be disqualified.
7. To protect exhibits from dust and moisture, **THEY MUST BE PLACED IN A TWO-GALLON FREEZER TYPE, ZIP STYLE BAG.**



8. Enlargements must be no larger than 8" x 10", and no smaller than 7" x 9". They are to be mounted across the narrow (11") dimension of an 11" x 12 1/2" sheet of white or cream studio mount. Photos mounted on foam core board will not be displayed. The top edge of the print must be 1" below the top of the mount. Sides of the print must be equal distance from the sides of the mount. A permanent mount should be made, using photographic dry mounting tissue, or spray mounting. Note: new mat board dimension and new mounting location.
9. Enlargements must be trimmed of white borders. No under lays, borders, or lettering permitted. (Example time and date stamp)

10. **Photographs taken with a digital camera and having no more adjustments than exposure, color intensity or correction, red eye removal, cropping, dodging and burning should be entered in the standard color or black and white classes.**
11. **Digital images that have had objects added or removed, filter effects applied or black & white and color combined must be entered in the class for Computer Manipulated Photos.**
12. Photos designated State Blue are eligible for State Fair. A maximum of one exhibit in each type of medium (photo, slide, video), for a total of three entries can be made in this division.
13. Enlargement and Miscellaneous - mounted on a white 11" x 12 1/2" vertical board.
14. Computer manipulated photos may include multiple prints on the board showing the changes made.
15. Photos on exhibit may be used for Photography Judging Contest.
16. Club Photo - Composition of pictures showing activities of 4-H Club or FFA Chapter, mounted on cardboard (20" x 26" maximum), cut into shape desired. No three dimensional exhibits.
Basis of judging: Arrangement of photos and lettering 40 percent; subject matter 60 percent.
17. Dog Project Photo I - 4 photos taken by 4-H member depicting dog project work, mounted vertically on an 11 x 12 1/2 inch white board. Project Photo II - 6 photos of the 4-H member and their dog taken by an amateur photographer depicting dog project work. Mounted vertically on a 16 x 20 inch white board. Exhibitor may make one entry in each Dog Project Photo Class. Photo exhibits are to be entered at the fair in the 4-H Photography Division. Exhibits from this class are not eligible for State Fair.
Champion and Reserve Champion exhibits will compete for Grand Champion and Reserve Champion.

7-8 year old 4-H'ers

- 290 A 29001 Photos - Color or Black and White
- 290 A 29007 For computer enhanced or manipulated photos. Photo must be from an original taken by the exhibitor. Exhibitor must include a second 11 x 12-1/2 matte board mounted with a 4 x 6 or 5 x 7 print of the original photo and 3 x 5 card explaining what manipulation was done. Place both matte boards in the same two gallon freezer bag.
- 290 A 29009 Videos/movies. Must be judged in a projected format. Manipulated does not include normal cropping, enlargement, or color intensity treatment. Criteria for judging shall include: 1) Evidence of story line; 2) Use of camera angles; 3) Use of zooming techniques; 4) Smoothness of scene changes; 5) Story telling; 6) Videos/movies may be no longer than five (5) minutes and comply with copyright regulations. No time or date should be imprinted on the tape or disk. In addition, all of the rules of photographic techniques, such as the rule of thirds, composition, framing, etc., will be applied. Videos or movies shall be from three to five minutes in length. Sound should follow the story line and should be more than dialog, but sound is not a required feature. Titles may be used, but are not required. Videos must be in the 1/2" VHS format and enclosed in a plastic bag.

9-11 year old 4-H'ers

- 290 B 29010 Photos - Color or Black and White
- 290 B 29016 For computer enhanced or manipulated photos. Photo must be from an original taken by the exhibitor. Exhibitor must include a second 11 x 12-1/2 matte board mounted with a 4 x 6 or 5 x 7 print of the original photo and 3 x 5 card explaining what manipulation was done. Place both matte boards in the same two gallon freezer bag.
- 290 B 29018 Videos/movies. Must be judged in a projected format. Manipulated does not include normal cropping, enlargement, or color intensity treatment. Criteria for judging shall include: 1) Evidence of story line; 2) Use of camera angles;

3) Use of zooming techniques; 4) Smoothness of scene changes; 5) Story telling; 6) Videos/movies may be no longer than five (5) minutes and comply with copyright regulations. No time or date should be imprinted on the tape or disk. In addition, all of the rules of photographic techniques, such as the rule of thirds, composition, framing, etc., will be applied. Videos or movies shall be from three to five minutes in length. Sound should follow the story line and should be more than dialog, but sound is not a required feature. Titles may be used, but are not required. Videos must be in the ½" VHS format and enclosed in a plastic bag.

12-14 year old 4-H'ers

- 290 C 29018 Photos - Color or Black and White
290 C 29024 For computer enhanced or manipulated photos. Photo must be from an original taken by the exhibitor. Exhibitor must include a second 11 x 12-1/2 matte board mounted with a 4 x 6 or 5 x 7 print of the original photo and 3 x 5 card explaining what manipulation was done. Place both matte boards in the same two gallon freezer bag.
- 290 C 29026 Videos/movies. Must be judged in a projected format. Manipulated does not include normal cropping, enlargement, or color intensity treatment. Criteria for judging shall include: 1) Evidence of story line; 2) Use of camera angles; 3) Use of zooming techniques; 4) Smoothness of scene changes; 5) Story telling; 6) Videos/movies may be no longer than five (5) minutes and comply with copyright regulations. No time or date should be imprinted on the tape or disk. In addition, all of the rules of photographic techniques, such as the rule of thirds, composition, framing, etc., will be applied. Videos or movies shall be from three to five minutes in length. Sound should follow the story line and should be more than dialog, but sound is not a required feature. Titles may be used, but are not required. Videos must be in the ½" VHS format and enclosed in a plastic bag.

15-19 year old 4-H'ers

- 290 D 29027 Photos - Color or Black and White
290 D 29033 For computer enhanced or manipulated photos. Photo must be from an original taken by the exhibitor. Exhibitor must include a second 11 x 12-1/2 matte board mounted with a 4 x 6 or 5 x 7 print of the original photo and 3 x 5 card explaining what manipulation was done. Place both matte boards in the same two gallon freezer bag.
- 290 D 29036 Photos with special effects. Would include darkroom manipulation of print and/or in-camera manipulation of the negative.
- 290 D 29045 Videos/movies. Must be judged in a projected format. Manipulated does not include normal cropping, enlargement, or color intensity treatment. Criteria for judging shall include: 1) Evidence of story line; 2) Use of camera angles; 3) Use of zooming techniques; 4) Smoothness of scene changes; 5) Story telling; 6) Videos/movies may be no longer than five (5) minutes and comply with copyright regulations. No time or date should be imprinted on the tape or disk. In addition, all of the rules of photographic techniques, such as the rule of thirds, composition, framing, etc., will be applied. Videos or movies shall be from three to five minutes in length. Sound should follow the story line and should be more than dialog, but sound is not a required feature. Titles may be used, but are not required. Videos must be in the ½" VHS format and enclosed in a plastic bag.

Dog Project Photos

- 50 C 5030 Project Photo I - 4 photos
50 C 5031 Project Photo II - 6 photos

Ribbon Awards: Champion and Reserve Champion Black and White entry and Color entry will be selected in each Unit, Purple, Blue, Red, and White, Grand Champion, Reserve Grand Champion

290 G 29051 * **Club Photo** - See rule 14 for instructions

Ribbon Awards: Blue, Red, and White

PROJECT DISPLAYS 4-H

Department 300

Superintendent: Michele Schneck

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Exhibitor may enter ONE of the following: notebook, display or poster telling about work done in their project per project area.
3. Exhibitor may have entries in more than one project area. At check-in, 4-H'ers are encouraged, but not required, to sign up for consultation judging of one project display entry. Consultation judging will take place during the entry time on Tuesday, July 29, from 2:00-7:00 p.m.
4. No project manuals or records should be entered.
5. The display will be limited to a maximum space of 2' x 2' x 3'. Maximum size will be strictly enforced. Tri-fold display boards, as used in science fair exhibits, may be used.
6. Poster size limited to 14" x 22".
7. Basis of awards - Educational 40, interest and originality 20, appearance 20, and quality of display material 20.
8. Wildlife - Exhibitors must comply with State and Federal laws. It is illegal to possess threatened or endangered wildlife, or the feathers, nests or eggs of non-game birds. Game birds and game animals taken legally during an open season may be used. The use of live wild animals in educational exhibits is prohibited.
10. Shooting Sports - Display size may be no larger than 36" wide x 24" tall x 3 ½" deep. Exhibitors must comply with State and Federal laws. No "live" ammunition containing propellant or explosive powders may be used in any display! Artistic substitutes must be used in lieu of powder and "live" ammunition.
11. No State Fair exhibits in this division.

300 A 30001 Bicycle
300 A 30002 Citizenship
300 A 30003 Family Studies
300 A 30004 Horseless Horse
300 A 30005 Leadership
300 A 30006 Pets
300 A 30007 Public Speaking
300 A 30008 Reading
300 A 30009 Recreation
300 A 30010 Safety
300 A 30011 Self-Determined
300 A 30012 Shooting Sports
300 A 30013 Small Engines
300 A 30014 Sport Fishing
300 A 30015 Theater Arts
300 A 30016 Tractor
300 A 30017 Wildlife

Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red, and White
Grand Champion, Reserve Grand Champion

SCARECROW COMPETITION 4-H

Superintendent: Dorothy Schaaque

Special Rules

1. Read General Rules
2. Must pre-enter by June 30.
3. Entries will be received on Tuesday, July 29 from 2:00 p.m. to 7:00 p.m.
4. Entry may be made as an individual or as a group project. Use your imagination! Be creative!
5. Entrants must supply all materials and stand needed to construct the scarecrow. The entry must be free-standing and self-supporting.
6. Maximum height 6 foot, maximum width 6 foot.
7. **Entries must follow the theme "Pledging Our Hands to Larger Service – Douglas County 4-H".**
8. Prizes: 1st Place \$20, 2nd Place \$15, 3rd Place \$10.

311 A 31101 Scarecrow

SPACETECH 4-H

Department 310

Superintendent: Craig Shultz

ASTRONOMY

Special Rules

1. Read General Rules. Pre-enter by June 30
2. 4-H members must be currently enrolled in the 4-H Aerospace program to exhibit in this division. Consultation judging is offered from 3:00-7:00 p.m., Tuesday, July 29, but not required in this division.
3. Each exhibitor may enter one exhibit per class. Exhibits must have been completed during the current year.
4. Telescopes entered in this division may be a kit or original design. Beginner kits and pre-finished telescopes requiring no painting are not acceptable.
5. Telescopes should not be more than 2 feet long and must have a stand that is able to hold the telescope, but not be any longer than the telescope. The report that accompanies the exhibit must be limited to the "4-H Astronomy Exhibit Information Form" which is glued to a 10" X 13" envelope. Plans (or a photocopy) for the telescope must be placed inside the envelope. Two photographs of the telescope construction and operation is required. Photographs should be mounted on one side of an 8 ½" X 11" page. A brief caption should accompany each photograph. Place photos in the 10" x 13" manila envelope. The telescope must be properly assembled and painted with a smooth and uniform finish. Decals, if used, should be attached smooth and tight.
6. Telescopes designed by the exhibitor must be original, not a modification of an existing kit.
7. Educational exhibits should be creative and showcase something specific you have learned in the Astronomy project during the current year. Educational displays are limited to a 2' x 3' tri-fold display board. No card board table exhibits will be allowed.
8. Exhibitor's name, county, age and year(s) in the project must be tagged or labeled in a prominent location on the telescope stand, educational display, notebook, and/or poster.
9. Astronomy educational posters must be no larger than 22" x 28" poster board.
10. Astronomy project notebooks must be organized in a 3-ring binder.

310 F 31030 Telescope made from kit or original design. Include plans.

310 F 31031 Astronomy Educational Exhibit

ROBOTICS

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. 4-H members must be currently enrolled in the 4-H Aerospace program to exhibit in this division. Consultation judging is offered from 3:00-7:00 p.m., Tuesday, July 29, but not required in this division.
3. Each exhibitor may enter one robot that has been constructed during the current year.
4. Each robot must be able to stand or sit freely by itself without additional supports. The robots dimensions must be no larger than 2 feet wide by 2 feet deep by 2 feet high. Weight may not exceed 15 pounds.
5. Each exhibitor is required to complete the "4-H SpaceTech Robotics Exhibit Information Form" which is available through the Extension Office. This completed form must be attached onto the front of a 10" by 13" manila envelope.
6. The exhibit must include written instructions for operation, construction plans, one to three pages of project photographs or a 5 minute CD, DVD, or video presentation, and robot programming information, if applicable. This information should be placed inside the 10" x 13" manila envelope mentioned above.
7. All electronic 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. All robots must include an on/off switch for operation.
8. Robots that include weaponry for the purpose of causing physical harm to another robot will be disqualified.
9. Robots must be powered by electricity, battery, water or solar source. Any robot powered by fossil fuels or flammable liquids will be disqualified.
10. The robot must be able to accomplish the goal the maker designed it for. Example: Be able to vacuum the floor. Find the brightest spot in the room. Mimic life. Follow a line.
11. Creativity will be a strong criteria in judging the "Robot Designed by Exhibitor classes.
12. Exhibitor's name(s) and county must be tagged or labeled in a prominent location on the robot, educational display, and/or notebook.
13. Educational displays are limited to one 2' x 3' tri-fold display board and no more than 3' x 3' of table space. No cardboard table exhibits will be allowed. Care should be taken to use durable materials that will withstand fair conditions. No electricity will be provided.
14. Team project notebooks must be organized in a 3-ring binder and should highlight information/roles of each team member, drawings, charts, photographs, goals and objectives of your robotics project, and all robotic competitions your team has competed in during the current 4-H year.

Level I 7-8 year olds

- 310 G 31033 Robot made from a commercial (purchased) kit. Include construction plans
- 310 G 31034 Robot designed and constructed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.
- 310 G 31035 Programmable robot made from a commercial (purchased) kit
- 310 G 31036 Educational Display or notebook

Level II 9-11 year olds

- 310 G 31037 Robot made from a commercial (purchased) kit. Include construction plans
- 310 G 31038 Robot designed and constructed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.
- 310 G 31039 Programmable robot made from a commercial (purchased) kit
- 310 G 31040 Educational Display or notebook

Level III 12-14 year olds

- 310 G 31041 Robot made from a commercial (purchased) kit. Include construction plans
- 310 G 31042 Robot designed and constructed by exhibitor. May not be mere modification of an existing robot kit or plan.
- 310 G 31043 Programmable robot made from a commercial (purchased) kit
- 310 G 31044 Educational Display or notebook

Level IV 15-19 year olds

- 310 G 31045 Robot made from a commercial (purchased) kit. Include construction plans
- 310 G 31046 Robot designed and constructed by exhibitor. May not be mere modification of an existing robot kit or plan.
- 310 G 31047 Programmable robot made from a commercial (purchased) kit
- 310 G 31048 Educational Display or notebook

Team Robotics Project

- 310 G 31049 Robot designed and constructed by 2 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. Exhibitors in this division will be assigned a task for their robots to perform. The tasks are changed annually. Please visit the SpaceTech website www.kansas4h.org/spacetech for the current year's task.

4-H ROCKETRY

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Consultation judging is offered from 3:00-7:00 p.m., Tuesday, July 29, but not required in this division.
3. Criteria for exhibiting and judging in this division are available at the Douglas County Extension Office.
4. Each exhibitor may enter one rocket per class that has been constructed during the current year. If more than one rocket is entered, one must be a "kit" and the second may be entered into any other applicable class. An exhibitor may not enter two rockets in the same class. To exhibit in this division, the rocket must have been flown. Support rods must not extend past the tip of the highest nosecone on the model. Support rods must remain in the upright position, do not angle. No model may be submitted on a launch pad.
5. The report that accompanies the rocket must be limited to the 4-H Rocket Exhibit Information Form which is glued to a 10" x 13" envelope.
6. Plans (or a photocopy of) must be placed inside an envelope. This includes original design rockets. If a rocket kit has been modified structurally, notations need to be given that indicate the changes made. One or more photographs of the rocket at the launch site are required. Photograph showing rocket at the moment of ignition is preferred. Photograph(s) should be mounted on one single-sided 8 1/2" x 11" page. There are to be at least 1 page of photos and no more than 5 pages of photos.
7. For original design rockets, one extra page of photographs may be added to show unusual construction or other important features. Describe in summary how model was tested for stability prior to flying.
8. The altitude achieved by the model is to be determined using a method other than estimation. Examples of accepted methods include altimeter, computer software, range finders, etc.

GENERAL CONSTRUCTION RULES

9. Angles of the fins must fall with a plus or minus 2 degrees variation.
10. Exhibit must be uniformly painted, smoothly finished, have decals applied smoothly. Fins should be rounded or streamlined. Fins and body tubes are to be sealed to eliminate the appearance of body grooves and wood grain. Any seams on plastic parts are to be sanded smooth. The rocket is to be properly assembled. Fins and launch lugs are to be filleted to reduce drag and properly secure them to the model. The nose cone is to fit snugly but still allow for easy removal.
11. Models may not be judged based on their paint scheme, with the exception of rockets that fit the definition of a scale model. They may be judged based on the paint scheme. 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.
12. Flight damage is to be documented by the participant. The judging of flight damage is to be secondary to all other aspects of the model and only then may it even be considered.
13. Beginner kits with prefabricated plastic fin assemblies and pre-finished rockets requiring no painting are NOT acceptable.
14. Original design rockets cannot be a modification of a pre-existing kit and must be of original design.
15. Multi-stage rockets can be flown using just the final stage and be considered fully flown.
16. Engines and igniter are not permitted with the exhibit and constitute an immediate disqualification. The only exception to this is the use of a "spent" engine as a permanently affixed structural component of a display base. When a "spent engine is used in this manner the casing must be completely hollow from one end of the "spent" engine to the other. This hollowing of the "spent" engine includes removal of the nozzle. DO NOT USE engines that still contain propellant.
17. Exhibitors who exhibit a rocket using a size E engine or larger will be required to provide National Association of Rocketry (NAR) membership number on the exhibit information sheet.

Alternative Skins (ages 14 and up)

Alternative skins are an advanced construction technique that allows the builders of Model rockets display maximum design and creativity in their models. Alternative Skins are thin coverings over a supporting skeleton that serve as the finish of a rocket as opposed to painting.

Construction and Operating Rules:

1. Use of alternative skins used for model aircraft is permitted on rockets of original design provided adequate provisions are made to prevent the rocket from catching fire during all phases of flight.
2. When used in construction these alternative skins should not be used as primary structure for the rocket. The rocket should still be of sound design and construction to insure safety for personnel performing launch activities as well as others who are in the nearby vicinity.

Types of covering:

1. Plastic shrink type coatings used for radio control model aircraft are permitted. These can be obtained from various manufacturers and hobby suppliers.
2. Other types of fabric coverings such as cloth types using coatings for stiffness are permitted as long as all of the rules set forth above are met.

Quality of Finish:

When the above finishes are used, the following judging criteria will apply in addition to those for judging other rocketry divisions.

1. Seams and transition areas will be uniform and even when they are needed in the construction.
2. Gaps and holes are not permitted in the covering especially where the fins or other stabilizing devices meet the main body of the rocket.
3. Omissions of these skins from the bottom of the rocket is permissible. Paints and other types of coatings currently used for rocketry may be substituted in these areas.
4. Alternative skins in this section may be used in conjunction with paints on the rocket. However, care shall be taken to insure that edges of the alternative skins will not be peeled off in flight.

Champion and Reserve Champion exhibits will compete for Grand Champion and Reserve Grand Champion.

7-8 year olds

- 310 A 31001 Rocket made from kit. Include plans.
- 310 A 31002 Rocket designed by exhibitor, not merely modification of an existing kit rocket. Include original plans.
- 310 A 31003 Rocket for Fun. Any type of model rocket.

9-11 year olds

- 310 B 31006 Rocket made from kit. Include plans.
- 310 B 31007 Rocket designed by exhibitor, not merely modification of an existing kit rocket. Include original plans.
- 310 B 31008 Rocket for Fun. Any type of model rocket.

12-14 year olds

- 310 C 31011 Rocket made from kit. Include plans.
- 310 C 31012 Rocket designed by exhibitor, not merely modification of an existing kit rocket. Include original plans.
- 310 C 31013 Rocket for Fun. Any type of model rocket.

15-19 year olds

- 310 D 31016 Rocket made from kit. Include plans.
- 310 D 31017 Rocket designed by exhibitor, not merely modification of an existing kit rocket. Include original plans.
- 310 D 31018 Rocket for Fun. Any type of model rocket.
- 310 D 31019 Rocket designed by exhibitor that uses alternative skins; not merely a modification of an existing kit. Include original plans

High Power Rocketry Guidelines

Propose: To allow for improved safety and judging of rockets that meet the following requirements:

1. 4-H members must be currently enrolled in the 4-H Aerospace program to exhibit in this division. Exhibitors must be at least 15 years of age by January 1 of the current year.
2. The NAR High Power Rocket Safety Code applies to the construction and launching of all rockets displayed in this division.
3. All rockets in this division are to be launched under adult supervision.
4. If a rocket is launched using an engine(s) that has 160.1 ("H" engine or equivalent amount of smaller engines) Newton's-seconds or larger, adult supervision must be provided by an individual having high power certification. If according to Federal Aviation Regulations Part 101, a waiver is required to fly the rocket, a copy of that waiver is to be attached to the High Power Information Form.
5. High Power rockets may be displayed without a supporting stand. If a supporting stand is used, it is not to exceed 8" square and 3/4" thick.
6. In addition to the information packet completed for all rockets, a high power information form is to be completed and placed inside the information packet.
7. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's rocket, at the judges discretion, will receive a participation ribbon. All information necessary will be given to the NAR and TRIPOLI for investigation and possible revocation of membership.

- 310 D 31019 High power rocket made from kit or original design.

(Exhibitors 10 and older) Rocket designed by 2 or more exhibitors, not merely modification of an existing kit rocket. Include original plans.

- 310 E 31021 Rocket designed by 2 or more exhibitors
- 310 E 31022 Rocket for Fun. Any type of model rocket.

Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red, and White
Grand Champion, Reserve Grand Champion

WOODWORK 4-H

Department 320

Superintendent: John Vesecky

Special Rules

1. Read General Rules. Pre-enter by June 30.
2. Consultation judging is encouraged from 2:00-7:00 p.m., Tuesday, July 29, but not required in this division.
3. Exhibitor may enter no more than one article in each class.
4. THE PLAN FROM WHICH IT WAS CONSTRUCTED MUST BE WITH THE ARTICLE EXHIBITED. The plan may be a photocopy, the actual pattern, or a scale drawing. It must be complete and accurate to the extent that a duplicate article could be built using the plan as a guide. If you draw your own plan, a scale of 1/4 inch equals one inch is suggested. Projects with missing or insufficient plans will be lowered one ribbon placing (i.e. a blue ribbon exhibit will receive a red ribbon.)
5. Plans and all other paperwork should be secured to the project in some manner. Tape is usually not adequate to accomplish this. It is recommended to use a zip top plastic bag with a hole punched through it and using string to tie this to the exhibit.
6. Label each article showing intended use, age and years in woodwork.
7. **Projects made from pre-cut kits are not allowed.**
8. In judging woodwork articles, consideration will be given to; Workmanship, including accuracy to the plan: Design; Choice of wood; Suitability and quality of finish; and Usefulness.
9. Champion and Reserve Champion will compete for Grand Champion and Reserve Grand Champion

Level I 7-8 year olds

- 320 A 32001 Article for farm or shop use.
- 320 A 32004 Lawn furniture or household furniture.
- 320 A 32007 Other woodwork. Articles not included in above classes. (Example: bird houses, bird feeders, household equipment such as knife racks, bread boards, door stops, etc.)
- 320 A 32013 Piece of repaired and/or refinished furniture with brief explanation of work completed attached to exhibit. (This class open to those who have met the requirements of either woodwork or home environment projects.) Not a State Fair Class.

Level II 9-11 year olds

- 320 B 32001 Article for farm or shop use.
- 320 B 32004 Lawn furniture or household furniture.
- 320 B 32007 Other woodwork. Articles not included in above classes. (Example: bird houses, bird feeders, household equipment such as knife racks, bread boards, door stops, etc.)
- 320 B 32013 Piece of repaired and/or refinished furniture with brief explanation of work completed attached to exhibit. (This class open to those who have met the requirements of either woodwork or home environment projects.) Not a State Fair Class.

Level III 12-14 year olds

- 320 C 32001 Article for farm or shop use.
- 320 C 32004 Lawn furniture or household furniture.
- 320 C 32007 Other woodwork. Articles not included in above classes. (Example: bird houses, bird feeders, household equipment such as knife racks, bread boards, door stops, etc.)
- 320 C 32013 Piece of repaired and/or refinished furniture with brief explanation of work completed attached to exhibit. (This class open to those who have met the requirements of either woodwork or home environment projects.) Not a State Fair Class.

Level IV 15-19 year olds

- 320 D 32001 Article for farm or shop use.
 - 320 D 32004 Lawn furniture or household furniture.
 - 320 D 32007 Other woodwork. Articles not included in above classes. (Example: bird houses, bird feeders, household equipment such as knife racks, bread boards, door stops, etc.)
 - 320 D 32013 Piece of repaired and/or refinished furniture with brief explanation of work completed attached to exhibit. (This class open to those who have met the requirements of either woodwork or home environment projects.) Not a State Fair Class.
- Ribbon Awards: Champion, Reserve Champion, Purple, Blue, Red, and White
Grand Champion, Reserve Grand Champion
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CONSUMER JUDGING CONTEST

Superintendent: Evelyn Johnston

Special Rules

- 1. Walk-in Contest, 9:00 - 11:00 a.m., Thursday, July 31, in Building 21
 - 2. Age requirement as of 1/1 of current year.
 - 3. Top four scorers who are 14, but not yet 19, before January 1 of the current year will qualify for the Senior 4-H Family and Consumer Sciences Judging Contest at the Kansas State Fair.
 - 4. Top four scorers who are 9-13 years of age before January 1 of the current year will qualify for the 4-H Family and Consumer Sciences Judging Contest at the Kansas State Fair.
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DAIRY JUDGING CONTEST 4-H/FFA

Special Rules

- 1. Contest held July 12 at 10:00 a.m. at the George Dairy Farm, 918 E 1500 Rd, Lawrence, KS.
 - 2. Age requirement as of 1/1 of current year.
 - 3. Classes will be selected by a committee and dairy judge.
 - 4. Oral reasons will be given.
 - Level IV, 15-19 year olds
 - Level III, 12-14 year olds
 - Level II, 9-11 year olds
 - Level I, 7-8 year olds
-

LIVESTOCK JUDGING CONTEST 4-H/FFA

Superintendent: Mark Richabaugh

Special Rules

- 1. Contest held 11:00 a.m., Saturday, August 2.
 - 2. Age requirement as of 1/1 of current year.
 - 3. Classes will be selected by a committee and livestock judge.
 - 4. Classes of beef, sheep, and swine will be judged.
 - 5. Oral reasons will be given.
 - Level IV, 15-19 year olds
 - Level III, 12-14 year olds
 - Level II, 9-11 year olds
 - Level I, 7-8 year olds
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HORSE JUDGING CONTEST 4-H/FFA

Special Rules

1. Contest held on Saturday, July 26 following the 4-H Horse Show in the Community Building.
 2. Age requirement as of 1/1 of current year.
 3. Classes will be selected by a committee
 4. Oral reasons will be given.
 - Level IV, 15-19 year olds
 - Level III, 12-14 year olds
 - Level II, 9-11 year olds
 - Level I, 1-8 year olds
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HORTICULTURE JUDGING CONTEST 4-H/FFA

Special Rules

1. Contest to be held prior to the county fair, 9:00 a.m. to 4:00 p.m., Friday, July 18, in Deal Six Auditorium at the Extension Office.
 2. Age requirement as of 1/1 of the current year.
 - Level IV, 15-19 year olds
 - Level III, 12-14 year olds
 - Level II, 9-11 year olds
 - Level I, 7-8 year olds
-

PHOTOGRAPHY JUDGING CONTEST 4-H

Superintendent: Jane Getto
Liz Grillot

Special Rules

1. Walk-in Contest, 9:00-11:00 a.m., Thursday, July 31, in Building 21 Kitchen.
 2. Age requirement as of 1/1 of current year.
 3. The contest will consist of photographs to judge, a problems class, and a written exam.
 4. Color and black and white enlargements from current 4-H Photography exhibit may be used.
 - Level IV, 15-19 year olds
 - Level III, 12-14 year olds
 - Level II, 9-11 year olds
 - Level I, 7-8 year olds
-

Special 4-H/FFA Awards to Exhibitors

ARDEN BOOTH GOOD MANNERS AWARD, Hank Booth

1. A special award will be made to a Douglas County 4-H or FFA exhibitor for good manners during exhibition. Competition will be limited to livestock and fair exhibitors.
 2. This award will depend on two qualifications: (a) the manners of the exhibitor at all times during the fair, regarding helpfulness, cooperation and attitude; (b) attractiveness of the pen or stall, and of the animal(s) exhibited.
 3. Judges for this competition will not be announced. Selected exhibitors will be under consideration at all times during the fair. The winner will be named from a list of previous year exhibitor nominees.
 4. The prize will be awarded in three parts. A plaque will be inscribed with the winner's name and will remain on display at the Extension Office. A second plaque will be awarded to remain with the winner. A \$50.00 cash prize will be awarded to the winner.
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NUNEMAKER CITIZENSHIP AWARD, Pauline Nunemaker

A special award presented to an outstanding 4-H'er enrolled in Home Economics, for achievement in promoting and developing good citizenship personally, and in others.

ANNETTE WINTER BOHON MEMORIAL AWARD, A.K. & Charlene Winter

Awards will be presented to the top Home Economics project exhibitor in memory of Annette Winter Bohon. The winner will be determined by placing in (Foods, Clothing, Project Display - Junior Leadership, Photography, Home Environment, Knitting, and Crochet exhibits). Judging classes will break ties. Exhibitor can only receive award one time. The winning exhibitor will receive a plaque from the Winter Family and a U.S. Savings Bond from the Kansas 4-H Foundation's Bohon Memorial Fund.

GILBERT GILGES SOLID MEMBER AWARD

Award will be presented to a Douglas County 4-H member who is dedicated to the total 4-H experience. This is the member that you can always count on to get the job done. The winner will be determined by one nomination per club. The winner will be selected by an anonymous committee.

A \$100.00 cash prize will be awarded to the winner. A plaque will be inscribed with the winner's name and will be displayed in the Deal Six Auditorium at the Extension Office.