



# Interstate Fair and Rodeo 4-H Division 2025



**Monday, August 11, 2025**

**Check-in all exhibits: 9-10:30 a.m.**

Coffeyville Recreation Building  
508 Park St, Coffeyville, KS 67337

**Consultative Foods Judging:** starts at 9 a.m. in order you arrive

All other judging will be 1:00-5:00 p.m. non-consultative and **building will be locked** until the bake sale.

**Bake sale:** 6 p.m. Fair board event NOT 4-H. Funds and questions related to the sale should be directed to the Interstate Fair Board.

**Check-out:** Thursday, August 14<sup>th</sup>, 4:00-6:00 p.m.

**Items will NOT be held.** Plan to have someone pick up your items during this time.

4-H Division Superintendent: Katie Townsend

[krohling@ksu.edu](mailto:krohling@ksu.edu)

Office: 620-331-2690

## Understanding Ribbon Awards

Exhibition of projects is a part of the 4-H educational experience. The Danish ribbon system, awarding ribbons by group, is used to recognize equal or near equal quality 4-H exhibits. Until the selection of the champions, exhibits are evaluated against a standard rather than in comparison.

Purple Ribbon: Outstanding on all standards! Qualifies exhibits for state fair if other requirements are met.

Blue Ribbon: Exceeds min. standard; may have minor flaws where improvements can be made.

Red Ribbon: Meets min. standards; may be visible signs of needed improvements

White Ribbon: Fails to meet minimum standards

Green Ribbon: Not qualified according to show rules. No premium paid.

Grand and Reserve Champion Rosettes: One each given per project area.

Awarded to the one best and second best overall exhibit.

Ribbons are awarded at the judges' discretion. Other than grand champions and reserve champions there are no set numbers. **Judges' decisions are final.**

## General Rules

1. All bonafide 4-H members of Interstate fair counties are eligible to exhibit. *Members must be 7 before January 1 of current 4-H year but cannot have passed their 19<sup>th</sup> birthday before January 1 of current 4-H year.*
2. The Montgomery County 4-H Fair (in Independence) is the official state fair qualifying show for Montgomery County 4-H members.
3. Every exhibit on the fairgrounds will be under the control of fair management. While every precaution will be taken for safekeeping neither the management, fair board members, or Extension agents will be responsible for any loss, damage, or accident that may occur.
4. **The right to interpret all rules in a manner that will be in the best interest of the show and the exhibitors is reserved by the superintendent and a panel of at least two other volunteers.**
5. Any complaint regarding eligibility or adherence to the rules must be made in writing and submitted to Katie Townsend see contact information on first page.
6. All exhibits award ribbons according to the ribbon awards outlined on pg 2. Ribbon money is not promised but will be distributed if available.
7. **Youth should be present for foods consultative judging. Anyone not present at time of judging is not eligible to compete for Grand and Reserve Champion. Any youth not present will also not be allowed to participate in the bake sale, if they qualify. However, any exhibit will be judged provided the youth types a one-page paper outlining their project, challenges,**

**methods, etc. Exhibitors with preservation do not need to be present for consultative judging since it does not go through the bake sale.**

8. No more than one exhibit (unless department rules differ) may be shown in the same class under any one exhibitor's name.

9. ***All exhibits must be grown, made or produced by the club member during 2024/25*** (one exception is the soybean exhibit which may be from last year's crop provided 4-H member was a part of growing last year's crop).

10. Exhibitors must comply with state and federal laws. It is illegal to possess threatened/endangered wildlife and feathers, nest or eggs of non-game birds. Game birds/animals taken legally during season may be used. The use of live game/wild animals in educational exhibits is prohibited.

11. Exhibits must remain on display until Thursday at 4:00 p.m. Pick-up time is 4:00-6:00 p.m. plan for someone to get your items during this time. Our time is early to allow youth to get in before the traffic of the nighttime events to get their items. If we cannot find enough help to keep the building open all week we will move the pick-up time up. If we have to do this it will be posted and announced as you drop your items off on Monday.

12. Avoid using copyrighted and/or trademarked materials. The letter "c" with a circle around it means the owner of the material holds copyright. Similarly, all rights to use trademarks are protected by "TM" or letter "r" with a circle around it. If you need to use copyrighted materials, contact the original source, explain how material will be used, and request written permission to use materials. Written permission to use copyrighted and/or trademarked material must be attached to the exhibit/displayed.

Copyrighted and/or trademarked materials utilized in any fair exhibit for endorsement or promotion instead of educational purposes will be disqualified, not be displayed, or receive ribbons or premiums.

## Visual Arts and Crafts

Superintendent: Ashley Muller

***Arts and crafts exhibits must be entered Friday from 8 a.m. to 11:00 a.m.***

***Exhibits will be judged consultatively Friday starting at 8 a.m.***

*See consultative judging rule under general rules #7.*



Exhibits must be entered according to exhibitor's 4-H age. Each exhibitor may enter up to 4 exhibits (his or her choice).

**In order to properly sort entries for state fair qualification please plan to label each entry as one of the following categories in fair entry:**

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

**Clay and Ceramics:** Any original item made of clay; may be fired or unfired, hand formed, or thrown on a wheel. Self-hardening, fire/oven-cured, and/or cornstarch clays are acceptable. Items can include, but are not limited to, clay statues, bowls, etc.

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

**Three Dimensional:** The piece must be observable on at least three sides and should be either free-standing or prepared to be hung.

**General Crafts:** This category incorporates pieces that do not correspond to the four, above-mentioned categories

**4500A**\*Junior Division – ages 7 through 9 years

**4500B** Intermediate Division - ages 10 through 13 years

**4500C** Senior Division – ages 14 through 18 years

A judges committee will select (5) state fair entries from Montgomery County

Each county may send 1 exhibit for each of the five areas listed above.

### **Fiber Arts**

Superintendent: Ashley Muller

See consultative judging rule under general rules #7

Options for exhibiting in fiber arts:

- **Crochet**, an article including felted items
- **Knitting**, made either by hand or machine, including felted items
- **Needle Arts**, created by hand using any of the following techniques: embroidery and cross-stitch, needlepoint, candle wicking, crewel, lace work, and/or applique.
- **Patchwork and Quilting**, includes quilts, pillows, pillow cases, tree skirts, etc. that are sewn but non-wearable items; it is acceptable for the exhibitor to create patchwork and have someone else quilt it.
- **Rug making**, techniques include braiding, latch hook, tying, floor cloth, etc.
- **Spinning**, a skein - minimum 10 yards in length
- **Weaving**, attach information about the type of loom or process used. Woven wood reed basket, should be exhibited in Visual Arts.
- **Ethnic Arts**, fiber art technique associated with specific country or culture. Practical skill developed to provide basic family needs (apparel, home furnishings or decorations). Or a method maintained throughout history and passed on to others, such as batik, Swedish huck towel weaving, mud cloth, bobbin weaving, tatting, felted items that are not knitted or crocheted, etc. Attach info. on history of the ethnic art.
- **Macramé**, an article

## **-Fiber Arts Educational Notebook,**

Share with others what you learned about a particular Fiber Art in the form of a notebook or binder. The notebook should include a narrative section describing the fiber art. It should include a clear description of the project, technique, budget, supplies, goals, accomplishments, successes, failures, and future plans. It may include samples of techniques, how-tos, photographs of completed projects, or other ways of educating others about fiber arts. NOTE: A collection of brochures, web pages, patterns, record book forms, etc. does not constitute an educational notebook. Name, local unit and fiber art covered must be clearly marked in the notebook.

- 1) When the exhibit is a sewed garment that also includes one or more Heritage Fiber Art techniques the determination of what department (Clothing or Fiber Arts) and class to enter will be the 4-H participant's decision. Exhibits may only be shown in one department.
  - 2) Non-textile pieces should be entered in Visual Arts. (items with wood, reed, straw, grass, etc.)
  - 3) Attach an identification label to each piece
    - A) Type or print on a 3" x 21/2" piece of cloth: class number, county/district, and exhibitor name
    - B) Sew or safety pin this ID label on the corner of flat articles
    - C) For garments, attach ID label to the front left shoulder seam, or left side of waistband, as if you were wearing the garments
  - 4) When articles, which are normally worn as a pair, are exhibited, both articles must be shown together. Fasten articles together securely with yarn.
  - 5) Special consideration will be given to articles that are of original design. Such articles should attach a note explaining original design.
  - 6) The exhibitor should attach an index card, no larger than 4" x 6", with the entry form to give the judge any information on what parts of the exhibit they made, processes used, or other information which the exhibitor thinks would be helpful for the judge. For all items, please indicate if item was made from a kit. For all items please indicate fiber content, and specifically if they are made of at least 60% wool. For quilted items indicate who did the quilting and binding.
  - 7) When the exhibit is a sewn garment that also includes one or more Fiber Art techniques (i.e. knitting, crochet, needle arts, or patchwork and quilting), the determination of what division (Clothing or Fiber Arts) and class in which to enter will be left with the 4-H participant.
- Each exhibitor may **enter up to 3 exhibits** (his or her choice).

Describe exhibit in fair entry. Example: Machine Knitted Sweater. Exhibits with at least 60% wool material should be noted. Include fiber content for all entries.

10. Fiber arts, all ages

Banners

55. \*Banners

Each club may **exhibit one club banner**. Banner must tell or relate to some aspect of 4-H; promotional or informative in a general or specific nature.

Judging criteria for banners:

Educational value.....	40%
Appearance.....	20%
Interest & originality.....	20%
Quality of display material.....	20%

Guidelines for Banners:

- 1) Banners are a two-dimensional display, depicting one idea.
- 2) Banners should be made out of flame-resistant material.
- 3) Dimensions 3 ft. x 4 ft. **or** 3 ft. x 5 ft.
- 4) Banners must be hung on a rod. On each end of the banner rod, there should be a wire or chain six inches long. One end of the wire will be fastened to the end of the rod. The other end will be connected to an “S” hook which will permit the banner to be hung.
- 5) Banners should be made of materials that permit the banner to be folded or rolled without damaging display. Three-dimensional objects may not be attached to the banner.
- 6) 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*.
- 7) Copyrighted and/or trademarked materials utilized for endorsement or promotion instead of educational purposes will be disqualified. See pg.2.

Sewing and Textile Design (construction & shopping in style posters)

**Identification Labels:** All clothing articles or garments must be labeled. Type or print on 3" x 2 ½" piece of cloth: Class Number, County/District, and exhibitor’s name and number of pieces in exhibit, (1of 2, 2 of 2). Attach labels on inside of all garments with a safety pin or corner stitches (back of neck, center back of waistband, or left end of apron band). Label each piece. Care label not required but youth should know the information to tell the judge

**Educational Exhibit** - Share with others what you have learned. May be in the form of a poster, notebook, or display. Follow copyright rules. Select durable materials that will withstand fair conditions. No card table displays. If exhibit is a poster, it must not be larger than 22"x28". If the exhibit is a display, maximum size is a 3' x 4' tri-fold board. Name and county/district must be clearly marked on educational exhibits.

**\* Recycled Clothing Project** - made of at least 50% recycled material (recycled means reusing an existing item in a new way). Could be remaking/redesigning a garment, re-purposing a clothing item for a new use, etc. Must include sewing of some kind. A 4"x6" index card must accompany entry describing the recycled materials and how they were used in the item.

**3997** Articles, garments or outfits constructed by a 7-8 year old exhibitor

**3998** Educational exhibit prepared by a 7-8 year old exhibitor

**4000** Articles, garments or outfits constructed by a 9-11 year old

**4001** Educational exhibit prepared by a 9-11 year old exhibitor



**4002** Articles, garments of outfits constructed by a 12-14 year old exhibitor

**4003** Educational exhibit prepared by 12-14 year old exhibitor

**4004** Articles, garments or outfits constructed by 15-18 year old exhibitor

**4005** Educational exhibit prepared by 15-18 year old exhibitor

**4006** Recycled Clothing Project ALL AGES

### **Shopping in Style – (A poster class for buymanship/shopping in style)**

Posters can be flat poster board no larger than 22" x 28." Or Tri-fold no larger than 36" x 48." Photos of 4-H member in purchased outfit must demonstrate criteria as outlined on scoresheet. Consider multiple angles, good light and highlight details so that the judge may accurately evaluate the exhibit. Exhibits should include actual photos of 4-H member in garments, and may also include pictures from magazines or the internet. Scorecard with criteria can be found at:

**4020 Shopping in Style: (7-9)** Exhibit should consist of poster that showcases:

A. a garment you purchased that reflects your personal style and explains how this garment reflects your style and how it influences what others think of you

B. a garment you purchased and explains how your personal style either aligns or contradicts what is considered to be "in style" today.

C. a garment you purchased and explains or illustrates how this garment is a modern version of a fad or fashion from an earlier decade; OR D. a garment you purchased and explains how this garment reflects a different ethnic or cultural influence

E. a garment you purchased and includes a color discussion that provides an overview of how different colors complement different hair colors and skin tones and how that influenced garment selection.

**4021 Shopping in Style:(10-13)–** Exhibit should consist of a display that showcases one of the following:

A. an outfit you purchased to wear with a clothing item that was already in your wardrobe that still fit but you didn't wear anymore. Explains why the clothing item was not being worn and what you did to transform it into a wearable garment again.

B. a top and bottom that you purchased, as well as at least three pieces of clothing in your existing wardrobe that you can mix and match with the new items to create multiple outfits. Includes a clothing inventory and explain what you have learned by completing this activity.

C. an outfit you purchased and explain why you selected the garment you did, your shopping budget, and cost per wear;

D. an outfit you purchased and explain how advertising influences clothing purchases making a distinction between wants and needs. Include your shopping budget and cost per wear.

E. an outfit you purchased along with a cost comparison between garments/accessories purchased vs. sewing/constructing the outfit. Comparison should include variety of shopping options and/or price tracking at stores over a period of time.

**4022 Shopping in Style: Senior (14-18)–** Choose one of the following options. Exhibit should consist of a display that showcases:

A. an outfit you purchased and care requirements not only for this garment but also for garments made of other natural and synthetic fibers. Display should also include a care cost analysis for garments of different fibers;

B. an outfit you purchased which you have repaired or altered. Include a clothing inventory list which includes cost savings for repaired items as compared to purchasing replacement garments;

C. an outfit you purchased along with plans and commentary for a fashion show that that would capture the attention of an audience. Plans should identify target audience, venue, theme, budget, and logistical plan for the fashion show;

D. an outfit you purchased and explain 3 methods of clothing repair that you have learned, i.e. torn seam, torn hem, replacing a button, etc. Display should also include photos and list of your assembled clothing first aid kit. Include itemized expenses;

E. An outfit you purchased, and feature any other completed activity from the Shopping In Style curriculum of your choosing that isn't listed above.





- 1) Each Electronics & Renewable Energy exhibit must include a “4-H Electronics & Renewable Energy Information Form” which is available <http://electric.engtech4ks.com/> or by contacting the Extension office. Youth must also include a wiring diagram or schematic. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
- 2.) Items that have been in use should be cleaned for exhibit.
- 3.) A sheet of operating instructions must be furnished and included in the manila envelope for any exhibit not self-explanatory.
- 4.) Classes 4600, 4601 and 4602 must be operable using only 110 or 120V AC or battery power. If battery power is required, batteries must be furnished.
- 5.) 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.
- 6.) No hand-dipped solder may be used on exhibits.
- 7.) If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor’s exhibit, at the judges’ discretion, will receive a participation ribbon.

## **Electrical and Electronics**

**4600 AC Electric:** Electric projects with a 110 or 120 V alternating current (AC) power source. Project examples: household wiring demonstrations, small appliance extension cords, trouble lights, indoor or outdoor wiring boards, or shop lights. May be a restoration or original construction. 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 judges have wiring access to examine the quality and safety of workmanship.

**4601 DC Electric:** 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 project. Examples include: wiring two- or three-way switches, difference between series/parallel lighting circuits or wiring doorbells switches. All DC electric projects must include batteries supplied by 4-H'er. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.

**4602:** 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.

**4604:** Newly built or repaired computers. This class is for newly built or repaired computers (laptop or PC) and allows 4-H members to demonstrate skills integrating the various parts of a computer into a single unit. Displays should show either a fully functional computer or show what the individual components do. The display should be free of dust and cabled neatly. Fully functional computers should boot up and do not need to include a monitor, keyboard, or mouse at fair.

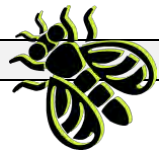
**4603 Educational Displays and Exhibits:** The purpose of the educational display and exhibit is to educate the viewer about a specific area of the 4-H electrical or electronics project. The display or exhibit should illustrate one basic idea. This class includes any educational displays, exhibits or science fair type projects which DO NOT have a power source, i.e. exhibits, posters or displays of wire types, conduit types, electrical safety, tool or motor parts identification or electrical terminology. Educational displays and exhibits must be legible from a distance of four feet, using a maximum tri-fold size of 3' x 4'

. **Alternative ENERGY** (A form of energy derived from a natural source, such as the sun, geothermal, wind, tides or waves) All exhibits in this division are limited in size to standard, tri-fold, display boards (36" X 48") and items may not extend beyond 12" from the back board. All displays must be self-standing.

**4620 EDUCATIONAL DISPLAY** - Create an exhibit that addresses a focused topic related to power generated from a renewable energy source. The purpose of the exhibit is to inform and create awareness.

**4621 EXPERIMENT** - Display an experiment addressing a problem or question related to power generated from a renewable energy source. Include hypothesis, background research, variables, a control, data, findings, conclusions and recommendations for future study.

## Entomology



Superintendent:

- 1) **One entry per class**
- 2) Resources for exhibiting can be found on the Kansas 4-H Ento Project Page: <https://www.kansas4-h.org/projects/plant-environmental-science/entomology/docs/tips-exhibiting-insects.pdf>

## COLLECTION CLASSES

- 1) Entries should be in an 18 x 24 x 3.5 inch wooden display box (or shadow box, for novice class) with a clear plastic top (such as plexiglass). Boxes can be handmade or purchased as long as they are the correct size and do not have a glass top.
- 2) 4-Hers may choose one of two taxonomies:
  - a) "Insects in Kansas" book
  - b) [www.bugguide.net](http://www.bugguide.net).
- 3) Each exhibitor is required to identify each box with (2) identification labels bearing exhibitor's name, county/district, the class, collection class enrolled in, and taxonomy used. One label goes in the upper left corner of the box (inside) and the other on the lower right corner of the box (outside). Arrange specimens in the box so it can be displayed lengthwise.
- 4) The number of orders, specimens (and families where required) must be included on both of the exhibitor's box identification label. Only one adult insect per species can be used in the boxes and notebook classes, unless correctly labeled as Male and Female.
- 5) Arrangement of specimens: The preferred method is to arrange the insects in groups or rows parallel to the short sides of the box. Specimens are to be arranged by Order in the box, then family where required.
- 6) Two labels should be centered on the pin beneath each specimen. First (closest to the specimen) is the common name label and the second label should include date/locality. Full county name, state abbreviation and collector name on the second label. Collector's name (or host) on the date/locality label is optional.

- 7) Specimens should be collected by the exhibitor and should focus on Kansas insects. Insects may be collected from one county into bordering states and labeled accordingly. Refer to “Entomology Collection Exhibit Resource at the link above for full details.
- 8) Only specimens of class Insecta should be included.
- 9) Purchases insects are not to be exhibited in collections, but may be used in educational displays.
- 10) Specimens of soft bodied insects such as aphids, lice, termites, etc. should be exhibited in alcohol filled vials.
- 11) Any major violation of rules will result in the exhibit being dropped one ribbon placing. Examples would include, but are not limited to: incorrect display box size, missing paperwork, feet on display boxes, no special project in notebooks, etc.
- 12) After the first year in Entomology, all 4-H members need to add an 8 ½ by 11-inch sheet of paper to their collection that states what they did to improve their collection for the current year. This should include how many new insects were added to the display box (please list), how many insects were replaced in the display box (please list), and number of new orders and/or families were added to the display box. Other optional things that could be included are number of insects caught for the year, number of new Orders added this year, number of talks and/or demonstrations given, activities participated in, leadership roles, etc. This paper should be taped to the upper left corner on the front of your display box.
- 13) A minimum of 10 new specimens must be added and/or replaced each year
- 14) The following insects are listed as Threatened or Endangered by the Fish and Wildlife Service. Because of this, no specimens of the below species may be caught or displayed in insect collections or educational displays. Any major violation of rules will result in the exhibit being dropped one ribbon placing. American Burying Beetle (*Nicrophorus americanus*), Monarch Butterfly (*Danaus plexippus*), Eastern Regal Fritillary Butterfly (*Argynnis idalia idalia* or *Speyeria idalia*), Western Regal Fritillary Butterfly (*Argynnis idalia occidentalis* or *Speyeria occidentalis*), Great Spangled Fritillary (*Speyeria cybele*).

### **\*83 Entomology Shadow Box**

Not eligible for state fair. 11x14 shadow box or 18 x 24 x 3.5inch wooden display box with plexiglass top, minimum of 15 species representing at least 3 orders. Follow labeling and arrangement guidelines above.

### **4900 Beginning I Entomology Collection**

Display in one standard box a minimum of 50 and a maximum of 125 species representing at least 7 orders. Follow general guidelines above. Should only exhibit in this class for 3 years or until they receive a purple ribbon at KSF.

#### **4901 Beginning II Entomology Collection**

Display in one standard box a minimum of 75 and a maximum of 150 species representing at least 9 orders. Follow general guidelines listed for Collections. Should only exhibit in this class for 3 years or until they receive a purple ribbon at KSF.

#### **4903 Intermediate Entomology Collection**

Display a minimum of 100 and a maximum of 300 species representing 10 orders. Two standard boxes can be used. Follow the general guidelines listed for Collections. In addition, family identification is required for all insects in any two of the following six orders: (only two will be counted for judging)

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

Members can exhibit in this class a maximum of 3 years. A 4-H member must move up if they receive a purple ribbon at the Kansas State Fair.

#### **4905 Advanced Entomology Collection**

Display a minimum of 150 and a maximum of 450 species representing at least 12 orders. Three standard boxes can be used. Follow the general guidelines listed for Collections. Family identification required for all insects belonging to the six basic orders outlined under the intermediate phase. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained. May exhibit in this class unrestricted number of years.

**\*\*\*For Monarch Educational Display Rules see the state fair book**

### **NOTEBOOK CLASSES**

- Display in a three-ring notebook for competition.
- Each exhibitor is required to identify the notebook by placing a Title Page in the front of the notebook bearing the exhibitors name, county or district and class 4-H'er is enrolled in and statement of taxonomy used:
  - Option A: “Insects in Kansas” book, or
  - Option B: which follows [www.bugguide.net](http://www.bugguide.net) The number of orders, specimens and families (required in Intermediate and Advanced classes) must also be included on the Title Page.
- Specimen pages should be grouped according to order and should include one page per species. If more than one insect is in the photo, an arrow to indicate identified insect should be used.
- Date, common name, full county name, state abbreviation and collector name should be included for each species. Collector's Name on the specimen page is optional.

- Specimen pages should have two different views of the insect if possible. If pictures are taken on different dates/localities, include information for both.
- Statement describing the habitat where found/host plant may be included and is encouraged and will be worth bonus 10 points total, not per page. A divider page is to be placed in front of each order of insects with the order name printed on the tab for the page and also on the front of the divider page.
- For the Intermediate and Advanced classes, insects are also to be grouped by family behind each order divider.
- If the exhibitor has been in the same class for more than one year, a separate sheet of paper needs to be added stating how many years the exhibitor has been in this class of the project and what the exhibitor did this year to improve their notebook. Place the paper just behind the Title Page in the front of the notebook.
- After the first year in Entomology, all 4-H members need to add an 8 ½ by 11-inch sheet of paper to their Photo Collection Notebook that states what they did to improve their notebook for the current year. This should include how many new insect photo pages were added to the Notebook (please list), how many insect photo pages were replaced in the Notebook (please list), and number of new orders and/or families added to the Notebook. Other optional things that could include are number of insects photographed for the year, number of new Orders added this year, number of talks and/or demonstrations given, activities participated in, leadership roles, etc. This paper should be placed right behind the Title Page in your Notebook
- A special project must be completed each year and included. Refer to publication project guidelines link above for more information.
- A minimum of 10 photo pages of new species must be added and/or replaced each year

#### **4907 Introductory Entomology Notebook**

- a. Display a minimum of 10 and a maximum of 30 insect species representing at least 6 different orders. Follow the general guidelines listed for Notebooks, including the Special Project. Limited to exhibiting for 2 years in this class.

#### **4908 Beginning I Entomology Notebook**

- a. Display a minimum of 20 and a maximum of 50 insect species representing at least 7 different orders. Follow the general guidelines listed for Notebooks, including the Special Project. Exhibit in this class for a max of 3 years or until you get a purple at KSF.

#### **4011 Beginning II Entomology Notebook**

- Display a minimum of 40 and a maximum of 70 insect species representing at least 8 different orders. Follow the general guidelines listed for all Notebooks, including the Special project. Members can exhibit in this class for a maximum of 3 years or until they receive a purple ribbon at the Kansas State Fair.

#### **4909 Intermediate Entomology Notebook**

- a. Display a minimum of 60 and a maximum of 100 species representing at least 9 different orders. In addition, family identification is required for all insects in any two of the following six orders: (only two will be counted for judging)
  - i. “Insects in Kansas” book - Orthoptera, Hemiptera, Homoptera, Coleoptera, Hymenoptera, and/or Diptera or
  - ii. “Insect in Kansas Book: 2016 Revised Taxonomy”, which follows [www.bugguide.net](http://www.bugguide.net) - Odonata, Orthoptera, Hemiptera, Coleoptera, Hymenoptera, and/or Diptera
- Exhibit for a limit of 3 years or until a purple ribbon at KSF

#### **4910 Advanced Entomology Notebook**

- a. Display a minimum of 100 and a maximum of 200 species representing at least 12 different orders.. Family identification is required for all insects belonging to the six basic orders as outlined under the Intermediate phase. Only families in the above 6 orders will be counted for judging. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained.

#### **EDUCATIONAL DISPLAYS**

- Share with others what you learned in this project. Exhibit any activity or learning experience related to the field of entomology or the Teaming with Insects curriculum that does not fit into Entomology Collection or notebook classes above.
- The exhibit may be, original works, digital presentations, programs, websites, games, apps, display box, notebook, display or poster which you have made.
- If the exhibit is a wooden display box, it must be 18 X24 X 3.5 inches with a clear plastic top (such as plexiglass) and displayed horizontally. If the exhibit is a poster, it must not be larger than 22” X 28”. If the exhibit is a display, maximum size is not to exceed a standard commercial 3’ X 4’ tri-fold display board.
- Name and county/ district must clearly be marked on educational exhibits.
- Refer to Entomology General Rule 14 for information on Threatened and Endangered Species specimens that cannot be displayed in Educational Exhibits. Any major violation of rules will result in the exhibit being dropped one ribbon placing. Examples would include, but are not limited to: incorrect display box size, missing paper work, feet on display boxes, no reference for information and/or photos, etc

#### **4902 BEGINNING EDUCATIONAL EXHIBIT**

Class for individuals exhibiting in the Beginning I and II Collection or Beginning Notebook Classes. Only exhibiting in this category, then ages 9-12.

## 4904 INTERMEDIATE EDUCATIONAL EXHIBIT

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

## 4906 ADVANCED EDUCATIONAL EXHIBIT

Class for individuals exhibiting in the Advanced Collection or Advanced Notebook Classes. If only exhibiting in this category, then ages 13 or older.

## 4920 Monarch Butterfly Educational Display Class

for all levels. See guidelines in the Kansas State Fair Book.

### Agronomy

The variety or hybrid must be listed for each exhibit in fair entry, not doing so will reduce the exhibit one ribbon. Exhibit should be mature as possible. 4-H member should play a part in raising the crops!

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

#### ^^ For all classes name variety and/or hybrid

- 2400 10 ears White Corn
- 2401 10 ears Yellow Corn
- 2425 1 gallon of corn
- 2402 10 heads Grain Sorghum -
- 2403 Forage Sorghum – entire plant, no roots, 5” bundle tied
- 2404 Other Forage Sorghums - entire plant, no roots, 5” bundle tied
- 2405 1 gallon Wheat soft or hard/ red or white
- 2408 3 heads Confectionery Sunflowers,
- 2409 1 gallon Confectionery Sunflower Seed
- 2410 3 heads of Oil Seed Heads
- 2411 1 gallon Oil Seeds
- 2412 1 gallon Oats
- 2413 1 gallon Barley
- 2417 1 gallon Brome Grass Seed
- 2418 1 gallon Other Tame Grass Seed
- 2419 1 gallon Soybeans (most recent harvest)
- 2420 Soybeans – bundle of 5 plants
- 2421 Edible field beans: one gallon sample of seed from most recent harvest.
- 2422 Edible field beans: five plants (with roots intact) most recent harvest.
- 2423 Miscellaneous Crops - 1 gallon sample of seed or 10 heads
- 2424 Cotton: 10 open bolls, not plants. Place bolls in bag that can breathe





**Hay** – Hay samples should be approximately 15"x12"x6". Maximum thickness of 6" and minimum of 5". Hay samples should be tied with a "T". Wrap the twine horizontally around the hay and tie, then wrap vertically and tie..

**2415** Alfalfa hay

**2416** Native Grass hay

**2426** Cool Season Grass Hay (fescue, brome, etc.)

**2430** Wheat variety exhibit

These displays by members enrolled in the wheat variety plot project. free-standing displays must not exceed the overall dimensions of 36" x 36" x 18" deep. Members must include the varieties provided in the display, but may include more varieties, if desired. Judged on 70 % educational value and 30% quality of display material

#### **2440 Weed Control Exhibit**

1. Collect, identify, press, mount, and label a minimum of 15 weeds. Try to include their roots, stems, leaves and flowers. Three of the weeds must be noxious weeds preferably found in your county. Standard 9"x12" scrapbook may be used. Identify the book with your name and county on the inside front cover.
2. Prepare a list of the weeds mounted, showing common name, scientific name, and where it was found. Place the list in a specially identified section of the scrapbook.
3. Collect and identify weed seeds found in crop seeds. Mount them for display purposes. Place them in a specially identified section of the scrapbook.
4. Write a story on "How We Control Weeds on Our Farm" Or "How We Control Weeds at Home". The story should be about 300 words in length. It must show definite methods used to control weeds. Place the story in a specially identified section of the scrapbook.

<h3><b>Food Preparation</b></h3>
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1. Youth should be present for consultative judging. Anyone not present at time of judging is not eligible to compete for Grand and Reserve Champion or the 4-H Food Auction, but the exhibit will be judged provided the youth types a one page paper outlining their project, challenges, methods, etc. and feedback will be left on the entry card.

2. **For food safety purposes**, any entries with frostings and fillings must calculate the amount of sugar in the frosting/filling recipe only. Calculation must be attached to entry, or placing will be lowered one ribbon. Frosting and

fillings need to contain more than 65% sugar. Examples on how to calculate this percentage are located at: <https://bookstore.ksre.ksu.edu/pubs/MF3544.pdf>

3. Recipes with instructions are required for all food product exhibits including box mixes (and frosting calculations if applicable). Products without recipes will be discounted one ribbon group.

**For food safety purposes,** any food with custard and dairy-based fillings and frostings (ex. Cream Cheese, regardless of sugar content), raw eggs, flavored oils, “canned” bread or cakes in a jar, cut fresh fruit, unbaked exhibit with raw flour (ex. No bake cookies) or any food requiring refrigeration will be disqualified and not judged. Refer to K-State Research and Extension Publication, 4H488, Judge’s Guide for Food and Nutrition Exhibits, or call the Extension Office. **Further Clarification: If cream cheese or sour cream (or anything considered a dairy product) is mixed into the entire batter and baked sufficiently and it does not require refrigeration will be allowed. If the dairy product (cream cheese, etc.) is in a filling, then it is not considered baked in with the dry ingredients and remains moister, therefore requiring refrigeration and will NOT be allowed.**

4. Alcohol (ex. Wine, beer and hard liquor) is not allowed as an ingredient. Entries with alcohol in the recipe will be disqualified and not judged.

5. All un-frosted cakes should be exhibited in an upright position with crust showing, except for cakes made with special designs such as Bundt cakes. They should have top crust side down.

6. Food exhibits should be in food-grade plastic bags, disposable plastic containers, or boxes and placed on paper or foam plates or foil-covered cardboard. Container will not be judged.

10) Attach label to bottom of plate or cardboard. Labels available at the Extension Office or make your own with Class number, Food Product Name, 4-H member name and county/district. **Please do this prior to arriving at the fair.**

7. Educational classes: Exhibits may be in the form of a poster, notebook or display. No card table displays. If the exhibit is a poster, it must not be larger than 22" x 28". If a display, maximum size is a 3' x 4' tri-fold display board. Name and district must be clearly marked on educational exhibit.

### **Classes for 7-8 year old exhibitors**

117. \*13 baked or no-bake cookies

118. \*13 muffins

119. \*One serving of a walking snack

120. \*Favorite recipes box or notebook with a minimum of five recipes

121. \*Educational exhibit



### **Classes for 9-11 year old exhibitors**

- 122. One quick bread exhibit. May be 7 muffins, one loaf or one coffee cake
- 123. 13 bar cookies (recommended size 2" x 2" each).
- 124. One microwave product. May be 13 cookies, one cake or one loaf of bread.
- 125. One single layer frosted cake.
- 126. \*Favorite recipes box or notebook with a minimum of 10 recipes.
- 127. Educational exhibit



### **Classes for 12-14 year old exhibitors**

- 128. 13 baked cookies
- 129. One loaf quick bread. The use of whole grain, fruits and/or nuts is encouraged.
- 130. One unfrosted angel food or chiffon cake
- 131. 13 yeast rolls
- 132. One loaf of yeast bread
- 133. One specialty bread (i.e. five pretzels, five bread sticks, a fruit bread or tea ring)
- 134. One microwave product. May be 13 cookies, one cake, or one loaf of bread.
- 135. \*Favorite recipes box or notebook with a minimum of 15 recipes.
- 136. Educational exhibit.

### **Classes for 15-18 year old exhibitors**

- 137. One cake, frosted or unfrosted.
- 138. One microwave baked product. (May be five cookies, one cake, or one loaf of bread.)
- 139. 13 yeast rolls
- 140. One loaf of yeast bread
- 141. One specialty bread exhibit (i.e. 7 pretzels, 7 bread sticks, a fruit bread or tea ring)
- 142. One two-crust fruit pie
- 143. \*Favorite recipes box or notebook with a minimum of 20 recipes
- 144. Educational exhibit

### **Classes for all exhibitors**

- 145. \*One decorated food item. Open to all ages
- 4306. One food gift package. Open to all ages. No alcoholic beverages. Package must contain at least 3 different items (prepared for human consumption), made by the 4-H member, in 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. **Food items in the gift basket will NOT be tasted. The gift package will be judged based on recipes, appearance and usefulness.**

On 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? c)

Home canned foods must follow Food Preservation rules. Canning jars should not be used for baking per manufacturer's instructions.

## Food Preservation

1. **4-H member may exhibit one entry in each class.**
2. *See consultative judging rule for youth needing to be absent under general rules #7, page 2.*
3. All exhibits must have been preserved since the previous year's county fair.
4. Recipes must be from current, tested resources listed below AND MUST BE ADJUSTED FOR ALTITUDE based on your processing location, or it will be disqualified. Processing methods that will be disqualified include open kettle canning, oven canning, sun canning, and using electric multi-cookers. If using the Presto Precise ® Digital Pressure Canner, please indicate the appliance is used for either water bath or pressure canning. Untested recipes will be disqualified for food safety reasons.  
Tested recipe sources include:
  - K-State Research and Extension Food Preservation publications
  - Other University Extension Food Preservation publications
  - USDA Complete Guide to Home Canning, @2015
  - So Easy to Preserve, 6th edition, University of Georgia Extension Service
  - Ball® Blue Book Guide to Preserving, Edition 38
  - Ball® Complete Book of Home Preserving, @2024
  - Canning mixes (i.e. Mrs. Wage's, Ball®)
  - Pectin manufacturers (i.e. SureJell, Ball®)
  - KSRE Rapid Response Center Recipes
  - National Center for Home Food Preservation
  - Ball™ and Kerr 3.
5. Alcohol not allowed as an ingredient in food preservation entries.
6. Currently no safe recommendations to can white peaches or elderberries.
7. Each exhibit must have the complete recipe and instructions attached with the entry card, or it will be disqualified. Recipe must include exhibitor name, recipe source, date of publication, and altitude, where food was processed. If using Mrs. Wage's or Ball® mixes, indicate the date the mix was purchased.
8. Exhibits must be processed in clean, clear standard canning jars, with matching brand (ex: use Ball® lids on Ball® jars, or Kerr lids on Kerr jars,

etc.) two-piece lids. Make sure lid and ring are the same color. Do not use colored jars, fancy padded lids, fabric over wraps or cozies as they interfere with the judging process. No fancy packs unless recipe states to do so (ex: Pickled asparagus). Jars must be sealed. For food safety reasons, the size of jars used must not be larger than the jar size stated in the recipe (ex: Salsa is canned in pint jars only, no quarts). There are 12-ounce, 24-ounce and 28-ounce canning jars available and may be used. Use pint jar process recommendations for 12-ounce jars. Use quart jar process recommendations for 24 ounce and 28-ounce jars.

9. Each jar exhibited must be labeled. Label must not cover brand name of jar. The label must give: Class Number, Product, Altitude where processed, Canning Method (water bath, weighted gauge or dial gauge pressure method), Process Time, Pressure (psi), Date processed including month and year, Name, and County/District.
10. Classes 4350-4355 will require one jar for each class.
11. Use a rubber band to attach entry card and recipe to top of the jar.
12. If dried food product is not in a canning jar, it will be lowered one ribbon rating. Suggested amount:  $\frac{1}{3}$  –  $\frac{1}{2}$  cup, or three or four pieces per exhibit. Dried products must include the recipe, preparation steps and heating instructions. No freeze-dried foods.
13. All meat jerky must be heated to an internal temperature of 160 degrees F before or after drying. This is not the drying temperature! Jerky not heated to an internal temperature of 160 degrees F will be disqualified and not be judged. Heating information can be found in “Dry Meat Safely at Home.”

- 4350** Sweet Spreads (Fruit and/or Vegetables); Syrups, one jar  
**4351** Fruits, Juices, Fruit mixtures (Salsa, Pie Filling, etc.); one jar  
**4352** Low-acid Vegetables (green beans, corn, etc. or veg. mixtures); one jar  
**4353** Pickles (Fruit /Vegetable) Fermented Foods, Relishes, Chutney; one jar  
**4354** Tomato/Tomato Products - Juice and Salsa; one jar. Salsa in pints only  
**4355** Meats; one jar  
**4356** Any dried Foods; One small jar



## Forestry

Superintendent:



### **Exhibit only in phase enrolled.**

1) All leaf exhibits are to be mounted on 8 ½ x 11 inch heavy stock paper and placed in loose leaf binders. (Magnetic or adhesive filler sheets for photographic prints or sheet protectors are recommended.) Twigs and fruit collections maybe exhibited in whatever manner you choose. Max tri fold size 3'x 4'. Resources on [www.kansas4-h.org/projects/agriculture-and-natural-resources/plant-sciences/forestry](http://www.kansas4-h.org/projects/agriculture-and-natural-resources/plant-sciences/forestry)

- 2) **Name, club, age, and year in project** should be on the front cover or in a prominent location
- 3) Leaves should be identified with an appropriate label located near the leaf on the same page. These labels should include (1) The proper common name as listed in the 4H334, "List of Native Kansas Forest Trees" (2) Scientific Name (Optional in 2025 and required in 2026) (3) Location (city and or county) where collected; and (4) date (day, month, year) or (month, day, year) collected.
- 4) Divide specimens into the following two sections: Native Kansas trees and Non-Native trees.
- 5) New specimens are those specimens collected during the current 4-H year and cannot be a duplicate tree species of previously displayed specimens.
- 6) Have samples grouped according to the year collected.
- 7) Variations of varieties do not count as different species or specimens.
- 8) When replacing previously displayed samples, due to degradation, improper mounting or incorrect identification, the specimen label must be updated. Replacements do not count as new specimens. Replacements should be displayed according to the year originally collected.
- 9) If you retrieve information for your forestry exhibit, you must include a reference citation to the source.
- 10) In all leaf collections, exhibit one complete leaf where possible. If leaf is too large, exhibit as much as possible. Sketch in reduced scale the entire leaf and illustrate where the exhibited portion is from. Note: A "leaflet" is incorrect when displayed as the complete leaf for the tree.
- 11) All work must show originality. Leaf collections and displays should not closely resemble work done by others in the same club.

### **Knowing Trees as Individuals (Leaf Collections)**

#### **5100 1<sup>st</sup> year** (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 from native Kansas trees.

B. Exhibit a minimum of 5 native Kansas trees showing leaf, twig and fruit from each species collected.

#### **5101 1<sup>st</sup> or 2<sup>nd</sup> year** (Choose either A or B)

c) 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 from native Kansas trees.

d) 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.

#### **5102 3<sup>rd</sup> or 4<sup>th</sup> year** (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 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.

**5103 5<sup>th</sup> year and beyond** (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 from native Kansas trees.

**OR**

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

**How a Tree Grows**

**5104** Notebook: May include a project notebook with 10 or more seeds collected with pictures showing germination **OR** a mounting of a thin section of wood cut from the end of log or top of stump labeled with info such as kind of wood and age of tree when cut **OR** exhibits an illustration of how a tree grows.

**Tree Appreciation**

**5105** Notebook: May include a research/reporting notebook with no more than 10 pages on exhibitor's selected tree. Must be different species each year. Include sketches, drawings, pictures, a story, or any other things which will help tell about the tree selected.

**Growing and Protecting Tree**

**5106** Display/Notebook: Requires a display or project notebook telling about project and pictures before, during, and after planting seedlings/container tree/balled tree. Maximum tri-fold size is 3' x 4'.

**Tree Culture**

**5107** Display/Notebook: Requires display or project notebook showing your project work and include pictures of before, during, and after wood lot improvement. Maximum tri-fold size is 3' x 4'.

**How Forests Serve Us**

**5108** May include collected wood samples (all or partial) and 2 pg essay. Wood sample display mounted on poster board or mounting material no larger than 3' x 4' tri-fold. Essay should be in a covered binder.

**Educational/Creative Exhibit**

**5109** Must be directly related to tree identification **or** forestry. Type of exhibit is open (notebook, poster, collection box, etc.) given a maximum tri-fold size of 3' x 4'. Care should be taken to use durable materials to withstand fair conditions. This is a good class to exhibit an unusual collection.



Superintendent:

- 1) The exhibit box should be 18" x 24" x 3 ½". **Plexiglas covers are required. Boxes with glass covers WILL NOT be accepted.** All specimens are to be arranged across the narrow (18") dimension of the exhibit box, making the exhibit 18" across the top and 24" deep exactly. If a box has a sliding Plexiglas cover, it must be removable from the top. Screws, locks or devices that would prevent judges from removing glass cover should not be used. For Lapidary classes only, the dimensions of the box should be appropriate for the display, but should not exceed 18"x24"x31/2".
  - 2) Each exhibitor is required to identify each display box by placing an identification label bearing: *Name, County/District, Number of Specimens* in the upper left-hand corner of the Plexiglas cover and by attaching a label with the same information on the lower right corner of the box (outside).
  - 3) Exhibitor may enter in both geology and lapidary classes.
  - 4) Geology specimens should be labeled with the number of the specimens, date collected, specimen name or description, and locality (county only) where collected.
  - 5) All specimens must be collected in the state of Kansas (only exception-see #7) during the current 4-H year, which will be allowed starting on the day after the conclusion of the State Fair.
  - 6) For the geology classes 5200, 5201, 5202 and 5203, specimens should be mounted in the box by proper groups: rocks, minerals, fossils. Fossils must be identified to the Phylum, Class and Genus level (if possible. Or part if Genus cannot be determined). The Genus specimen name is to begin with a capital letter and the whole specimen's name must either be italicized or underlined, not both. Species name is not required however, if a species name is used it must be all lowercase and either italicized or underlined, not both. The words "Phylum, Class, Genus" on labels are to be spelled out, not abbreviated. More than one specimen of the same kind of rock or mineral or species of a fossil may be exhibited if this duplication represents different geological formations. Specimen label must show this distinction (Fort Hays limestone, not just limestone; calcite from the Greenhorn Formation, not just calcite; Phylum: Brachiopoda Class: Articulata Genus: Composita from the Morrill Limestone Member, not just Phylum: Brachiopoda Class: Articulata Genus: Composita).
  - 7) For geology classes 5200, 5201, 5202, 5203, 5305, and 5206 all specimens must be collected by the participant (not purchased) from locations in Kansas, with the exception of Tri-State Mining Area specimens collected from these three adjacent counties: Ottawa County, OK; Newton and Jasper Counties, MO. Other out of state specimens will not count in the minimum number for the class, nor will they be considered in the judging.
- 5200** Geology. Display at least 15 different rocks, minerals, or fossils collected during the current 4-H year. Limited to 1 exhibit box.



**5201** Geology. Display at least 30 different rocks, minerals, or fossils and at least 5 of each. **Fifteen must be collected during the current 4-H year.** Limited to 1 exhibit box.

**5202** Geology. Display at least 45 rocks, minerals, or fossils and at least 5 of each. **Fifteen must be collected during the current 4-H year.** Exhibit limited to two display boxes. Identify the rocks as igneous, metamorphic or sedimentary. These rock types must be spelled out on labels or have a legible key.

**5203** Geology. Display at least 60 rocks, minerals, or fossils, at least 5 of each. **Fifteen must be collected during the current 4-H year.** Exhibit is **limited to 2 boxes**. Identify the rocks as igneous, metamorphic or sedimentary. These rock types must be spelled out on labels or have a legible key.

**5204** Geology Educational Exhibit: Exhibit relating to everyday living; or to a mineral test, a rock formation, geological history, species of a fossil, forms of one mineral, a variation of one kind of rock, archaeological artifacts, or Indian artifacts. Digital formats are accepted. Please make arrangements for the judge to view your exhibit and have a hard copy for display. List your sources used (for example – web addresses or books reviewed as a citation list). Exhibit limited to 4 feet of table space. Exhibitor may also exhibit in lapidary class.

**5205** Mineralogy. Display a minimum of 15 mineral specimens collected in Kansas, at least 5 of which have been collected during the current 4-H year. The minerals are to be grouped by mineral class (ie: Carbonates, Oxides, Silicates) and at least 3 classes must be represented. The member must use one standard display box. The specimens must be labeled with the number of the specimen, date collected, name of specimen, county where collected and chemical composition (ie:  $\text{CaCO}_3$  for calcite) if known.

**5206** Paleontology. Display a minimum of 15 fossil specimens collected by the participant in Kansas, at least 5 of which have been collected during the current 4-H year. The fossils are to be grouped by Phylum and Class, and at least 3 phyla must be represented (Brachiopoda, Chordata, Mollusca, etc.) The member must use one standard display box (see #1). The specimens must be labeled with the number of the specimen; date collected; county where collected; formation, member, or source; phylum, class, and genus or part; and geologic age

**5207** Petrology.. Display a minimum of 15 rock specimens collected in Kansas, at least 5 of which have been collected during the current 4-H year. Rocks are to be grouped by the 3 rock classes (Sedimentary, Igneous, and Metamorphic). You must display at least one specimen from each of the three

classes. The specimens must fit in one standard display box (see #1). Specimen labels must include a specimen number, the date collected, name of specimen, and the county where collected. All rocks must be identified by the formation and member name (Examples: Fort Hays Limestone, Member of the Niobrara Chalk Formation) or source (Examples: Rocky Mountain Outwash, glacial till).

**Lapidary Classes**

The lapidary classes will be judged on the following criteria:

- Workmanship and Content.....60 points
- Presentation and Showmanship.....30 points
- Accuracy of Information.....10 points

All lapidary specimens should be labeled with the following information:

- Specimen name
- Place of origin (county, state)
- Purchased or self-collected
- Date lapidary treatment began
- Date lapidary treatment completed

The dimensions of the box should be appropriate for the display but should not exceed 18” x 24” x 3½”. The work (polishing/tumbling) must be done by the exhibitor as this is part of the learning process.

**5300 Lapidary.** Display at least 5 varieties of polished (tumbled) specimens and 5 varieties of unpolished specimens that have not yet received lapidary treatment. These do not have to be an example of “before and after”, nor do they have to be self-collected. Locales must be identified.

**5301 Lapidary.** Display before-and-after examples of at least 3 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each. There is no requirement that the 4-Her collect any of these. Locales must be identified. Lapidary work should be done during the current 4-H year.

**5302 Lapidary.** Display before-and-after examples of at least 6 varieties of specimens, at least 2 tumble-polished & 2 unpolished. At least 2 varieties should be collected from the native site by the 4-Her, at least 1 comes from Kansas. Locales must be identified. Lapidary work on at least three varieties should be done during the current 4-H year.

**5303 Lapidary.** Display before-and-after examples of at least 9 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each. At least 3 varieties should be collected from the native site by the 4-Her, at least two of which comes from Kansas. Locales must be identified. Lapidary work on at least three varieties should be done during the current year.

**5304 Lapidary.** Exhibit at least 6 specimens not previously exhibited, which have received lapidary treatment. Lapidary treatment may consist of polishing, an end, face, or flat lapping. Specimens must represent at least 3 different varieties and include at least 3 cabochons of any size or shape, only one of

which may be free-formed. A cabochon is a style of cutting in which the top of the stone forms a domed or curved convex surface. Three of the specimens must be mounted into jewelry findings.

## Interior Design & Architecture



Superintendent:

**444** \*Single Exhibit. An article made or refinished by the 4-H member for the home. Must include attached summary of the project. Not state eligible.

**4400** – Interior Room Design Board. Select one room within your home or imaginary/future home to design. Create a basic floor plan showing wall footprint including any furniture, fixture and/or cabinet layout. Include any other illustrations, drawings or photographs to help support your design. Also include material/finish samples (wall treatments, floor covering, paint samples, etc.) Label drawings, material finishes and any additional information so the audience understands their intention. All finishes should be attached to the presentation board along with budget information and design intent. To explain your design intent, write a brief description to be included on the design board. (no more than one page 8.5" x 11"). Presentation boards must be foam core or a standard tri-fold display. Workmanship, design layout and neatness should be taken into consideration when completing the presentation board.

**4401** – Two Collages on Presentation Board. In this project, develop two imaginary interior rooms. Each room should start out with identical dimensions and features (doors, windows, etc.) The function of the room can be up to you (bedroom, coffee shop, art studio, etc.) but should be the same for both rooms. For each space, use collage to create a feeling or mood for the occupants of the space. The mood created for one space should be the opposite or contrast to the second space. Choose a pair of contrasting words from the list provided in the Pilot project materials are located on the Kansas 4-H website under "projects" and "Interior Design & Architecture". Each collage must be on its own page. Maximum page size preference and maximum is 11 x 17; can use smaller dimensions if needed. Collages should utilize layers to convey a space that includes a background, midground and foreground. Once these are established, add as many additional layers as needed. Use print materials from magazines, colored paper, the internet, or other design materials to find furniture, lighting fixtures, textures and other elements to complete each collage. Don't worry too much about the functionality of the space but focus on materials and colors to create the mood of the space. For each collage, write a brief description of your design intent. (one to three paragraphs

total). Additionally, you may include research, inspiration imagery or any additional drawings that helped you design your space. Adhere to both collages and design intent on a foam core presentation board. Label each collage with the descriptive words you selected from the list. Foamcore presentation board should be cut to size to fit all collages, images and written material so it's easily viewed without being oversized.

Workmanship, design layout and neatness, and design strategy should be taken into consideration when completing your presentation board.

**4402** – Two Diorama Models. Similar to class 4401, 4-H Members will construct two dioramas, one for each space demonstrating contrasting moods. Each diorama will be designed within similar sized boxes. Boxes should be large enough to be easily viewed but no larger than 12" length x 10" height x 8" depth. Both rooms being depicted need to be the same size. Manipulation to the box is allowed (cutting open such as windows, etc.) Dioramas should use layers to convey a space which includes a background, midground and foreground. Once you have these established, you can add as many layers as needed. Use print materials from magazines, scrapbook paper, colored paper, the internet or other design materials to find items such as floor, ceiling or wall coverings, furniture, lighting fixtures, textures and other elements to complete each room or diorama. Elements will need to be cut out and adhered to a rigid material such as foamcore board or cardboard and securely placed inside the box to establish each background, midground and foreground to reflect the design of the room. Don't worry too much about the function of the space, focus on materials and colors to create the mood of the space. Use openings in your container to experiment with the effect of light in your space. Dioramas should not contain purchased toy figures, miniature furniture/cabinets or moveable parts, but may include securely adhered 3-dimensional elements of the the project member's own making. Elements should be adhered to materials easily found at home. For example: magazine photos, cardstock, plastic, cardboard, chipboard or other material to depict design finishes/elements within the diorama. Include small, foamcore presentation board with the set of dioramas that includes design intent for each diorama and any research or inspiration imagery used to complete the dioramas. Workmanship, design layout and neatness, and design strategy should be taken into consideration when completing your dioramas. Architecture Focus: Architects plan, design and oversee the construction of buildings and other structures beginning with concept development to the final construction phase of projects. It's also important that they ensure the final product is safe and functional. Architects balance artistic creativity with sound building techniques while also considering how the built environment impacts people's emotions and lifestyle.

**4403** – Marble Maze or Enclosure. Create a space in which a marble will move through a sequence of rooms, enclosures or spaces. Use different types of

elements and materials to enclose your spaces or guide the marble. Consider the size of the marble and how you want the space to feel – big and open or small and enclosed. Pay close attention to the sizes of architectural elements relative to the size of the marble. To begin, identify a clear goal for the marble maze or enclosure. Use the glossary in the pilot project materials (located at [www.Kansas4H.org](http://www.Kansas4H.org) under projects, then interior Design & Architecture) for design vocabulary to help support the goal. To construct the marble maze or enclosure, use household materials found around the home to create the structure. (cardboard, chipboard, construction paper, paper towel or toilet paper tubes, etc.). Materials don't have to be boring, but they should be functional. Don't be afraid to get creative with your construction materials when thinking of your overall goal and presentation. No minimum size requirements for this project, but the base of the structure should be no larger than 18" x 24" (poster board size) and 12" in height. In addition to your enclosure/maze, you may also present a small design board with illustrations/drawings to help the audience understand the path of travel for the marble, or the rules for which you designed. Presentation board can be made from foam core or a small tri-fold display. Adhere illustrations, photos or drawings to the board with any other information useful to the viewer including design intent and goals you set for the marble maze/enclosure. Write or type a brief description of your design intent (1-3 paragraphs total) to be included on the design board. Workmanship, design layout and neatness, and design strategy should be taken into consideration when completing your enclosure.

**4404 – Marble Maze Presentation Board Only.** Presentation board should be foamcore or trifold display with below items attached: Include drawings of your marble enclosure/maze design; (examples include floor plan, section, elevations, etc.) In addition to your base drawings, include any illustrations/drawings to help your audience understand the path of travel for the marble. You may also include quality photographs that show the sequence of the marble moving through the built design. Images may be annotated, meaning you can use notes to explain your thoughts/design intent, on the board. This sequence of photos should visually tell the story of your design. Write or type a brief description of your design intent (1-3 paragraphs in total) to be included on the presentation board. Workmanship, design layout and neatness, and design strategy should be taken into consideration when completing your design board.

## Horticulture & Landscape Design

**May enter 1 garden display and 4 different vegetable or fruit exhibits.**

- 1) Secure entry form to disposable plate or container with string or tape. Container is not judged.
- 2) A county fair exhibitor earning a purple ribbon for a particular type of vegetable (i.e. early peas) is eligible to exhibit another vegetable (i.e. late pumpkins) at the State Fair.
- 3) Information about exhibiting produce available in publication "Exhibiting Fruits and Vegetables" at <http://www.bookstore.ksre.ksu.edu/pubs/c405.pdf>

**May enter 1 garden display and 4 different vegetable or fruit exhibits.**

**2500 Garden Display** –Limited to 4 square feet of space. Garden Display must be exhibited in a tray, basket or container that can be easily moved. Exhibit consists of 5 different fresh vegetables or fruits. Canned and shelled vegetables are not acceptable. Only one variety of each type of vegetable or fruit may be exhibited. The numbers of the 5 vegetables or fruits to be exhibited are as follows:

**Large Vegetables** (One Each): Cabbage, Cantaloupe, Eggplant, Large Pumpkin, Squash, Watermelon.

**Medium Vegetables** (Five Each): Beets, Carrots, Cucumbers, Decorative Gourds, Potatoes, Miniature Pumpkins, Okra, Onions, Peppers, Radishes, Sweet Potatoes, Tomatoes, Garlic or other similar sized vegetable.

**Small Vegetables** (Twelve Each): Green snap beans, wax beans, English peas, Cherry and pear tomatoes, or other similar sized vegetables.

**Small Fruits** (one half pint box): Strawberries, blackberries, raspberries, or other similar sized fruits.

**Tree Fruits** (5 each): Apples, pears, peaches or similar sized fruits.

**Grapes** (2 bunches)

**2501 Small Vegetable specimen plate (12)** Ex: green snap beans, yellow wax beans, radishes, other small vegetables.

**2502 Medium Vegetable specimen plate (5)** Ex: cucumbers, cherry tomatoes, tomatoes, beets, white onions, yellow onions, red onions, bell peppers, other peppers, okra, parsnips, turnips, radishes, sweet potatoes, red potatoes, white or Russet potatoes, carrots, miniature pumpkin, decorative gourds, or other medium sized vegetables

**2503** Large Vegetable specimen plate (1) Ex: watermelon, summer squash, winter squash, large type pumpkin, eggplant, cabbage, cantaloupe, other large vegetable.

**2504** Fresh Culinary herbs (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.

**2505** Small fruits (one half pint box) Ex. Strawberries, blackberries, raspberries, or other similar sized fruits. If other, please include name of fruit on entry.

**2506** Tree Fruits (plate of 5) Ex. apples, pears, peaches, or similar sized fruits.

**2507** Grapes (plate of 2 bunches).

## **Floriculture**

1. **A 4-H member may enter up to 4 floral exhibits, plus a notebook.** Each cut flower specimen must be of a different species.
2. Potted plants are not accepted.
3. All materials should be grown by the exhibitor and not purchased. Entries should not take over one square foot of table space.
4. Display should be exhibited in a disposable container that is easily moved by staff. Fair association is not responsible for the loss or damage of vases or containers. Container will not be judged.
5. Information about exhibiting flowers can be found online in the publication “Preparing Cut Flowers for Exhibit”, at [www.bookstore.ksre.ksu.edu/pubs/4H826.pdf](http://www.bookstore.ksre.ksu.edu/pubs/4H826.pdf)

**5600** Annual Garden Flower, cut specimen, single stem

**5601** Perennial Garden Flower, cut specimen, single stem

**5602** Fresh Flower Arrangement. Flower materials must be grown and/or collected by exhibitor, not purchased.

**5603** Dried Flower Arrangement, no fabric or plastic material allowed. Materials must be grown/collected by exhibitor

**5604** Horticulture Notebook –three ring binder written narrative describing a horticulture project such as: landscape design, landscape installation, lawn renovation, water garden, flower garden, vegetable garden, lawn mowing service, landscape maintenance business, farmer’s market business, or other horticulture project. Encouraged to include photographs, illustrations and/or landscape drawings that help explain work done by the member. Photos taken from the same location before, during and after the completion of the project are helpful. Exhibitor may enter two different horticulture notebooks.

Horticulture notebook scoring is as follows: Organization and General Appearance (neat, title page table of contents, original, creative, etc.) 20%; Narrative (goals, successes, failures, etc.) 40%; General Content (subject matter, photos, maps, knowledge gained, etc.) 40%.

## Photography

Each exhibitor will be **limited to 6 entries, no more than 2 per class.**

- 1) Photographs entered must be the result of the current year's project work by the 4-H member. Photo images must be taken by the exhibitor.
- 2) Photographs taken with a digital camera and having no more adjustments than exposure, color intensity or correction, one-click filter effects, red eye removal, cropping, dodging, and burning should be entered in the standard color or black and white classes. HDR photos are to be entered in the standard photo class.
- 3) The black and white classes are for black and white photos only. Monochromatic prints, including sepia prints are considered color photos and must be entered in the appropriate color photo class.
- 4) Photos must be no larger than 8" x 10" and no smaller than 7"x 9" after trimming.
- 5) Appropriate photo subject matter: Photographic subject matter is expected to follow 4-H standards. Review the Kansas 4- H member Code of Conduct. Superintendents decide violations.
- 6) Photos with live subject(s) on railroad right of way or taken from railroad right of way property will not be displayed in Kansas 4-H Photography and will be DISQUALIFIED and Not Judged.
- 7) Copyright protections must be observed.
- 8) **Photo Mounts:** A full coverage permanent mount (spray adhesive recommended or heat mount) must be made. (No household glues, double stick tape, etc.) Please see photo mount diagram at available on [Kansas4h.org](http://Kansas4h.org).
- 9) Photos are to be mounted across the narrow (11") dimension of an 11" x 12.5" sheet of white or cream studio matte board. Matte boards should be purchased from your local Extension office.
- 10) Photos must be mounted with the top edge of the print 1" below the top of the mount (board is always oriented narrow side up). The sides of the print must be equal distance from the two sides of the mount.
- 11) Improperly mounted photos, oversize or undersize photos or photos with the white borders not removed or lettering (including dates) on the photo, will be lowered one placing.

### Classes for 7-8 year old exhibitors



- 191. \*4-picture exhibit. Four pictures (3 ½" x 5" or 4' x 6") untouched, not enlarged, mounted on 11" x 12 ½" matte board. Must include one picture of a building, one of a person, one landscape shot and one picture of an animal.
- 192. \*Color photo taken by 4-H member.
- 193. \*Black and white photo taken by 4-H member

**Classes for 9-11 year old exhibitors**

- 196. Color photo taken by 4-H member.
- 197. Black and white photo taken by 4-H member

**Classes for 12-14 year old exhibitors**

- 200. Color photo taken by 4-H member.
- 201. Black and white photo taken by 4-H member

**Classes for 15-18 year old exhibitors**

- 204. Color photo taken by 4-H member.
- 205. Black and white photo taken by 4-H member

**4806 My Favorite 4-H Photography Display.** This is a “display only” class. Eligible members must have enrolled in photography for ten (10) or more years. Requirements are: A. Choose a total of four (4) of your favorite photos from any of the years enrolled in photography. If used previously in competitive exhibits, removal 1 data slips and stickers. If the photo is an unmounted print, mount it using standard 4-H requirements and mat board. B. Develop a short biography piece.

1. Tell how/when an interest in photography began. 2. Explain why each of the four photos is a favorite. 3. Share the skills learned because of photography. Think beyond the camera skills and include leadership, community service, etc 4. Tell of any mentors/leaders worked with. 5. Share workshops or camps pertaining to photography you attended. 6. Explain (if relevant) any plans to use photography skills beyond 4-H/High School. 7. Include a small (2 X 3) photo of yourself at the start of the biography. 8. Print the biography document and mount it on a standard mat board.

Place name and Extension unit on the back of each of the 5 mat boards in the upper right-hand corner. This exhibit does not have to qualify at the county/district level to exhibit at the Kansas State Fair.

**Portfolio Classes**

Art Portfolio books for portfolio classes may be found at art supply stores, big box craft stores or online. Generally contain a black cover with clear pages to

hold photos. Portfolio book pages should be 8 ½ x 11” in order to hold an 8 x 10 photo.

#### **4807. Growth Portfolio**

- 1) Member is eligible for this class beginning with the third year of enrollment in the 4-H photography project.
2. Exhibit will consist of one photo for each year of enrollment. Each photo must have been created in a different year and must be labeled with the year taken/project enrollment year. A maximum of 5 photos may be included if the member has 5 or more years of enrollment. Photos are not required to be in a consecutive order.
3. Photos must be 8” x 10” and may be color or black and white and must be unmounted.
4. An information sheet must accompany each photo giving brand and model of camera used to create the photo. Setting for focal length, aperture, mode and shutter speed must also be listed. The skills set used to create the photo must be given and fully explained. The main goal for each year should also be given. The form for this information is available on the [Kansas4h.org](http://Kansas4h.org) website, is a form fillable document and is required.
5. A short introduction of the photographer should be placed in the first page. This introduction should tell why the 4-H member enrolled in the Photography project and why they have continued to enroll. Exhibitor could also tell of a fun event photographed, a learning experience that taught them new skills or other related learning.
6. Beginning with photo 2 (two), member description of GROWTH in project skill must be included on information sheet.
7. Exhibit will consist of introductory page, skill sheet and photo from each year in chronological order and arranged in a portfolio book. Skill sheet will go in left hand page and unmounted photos in right hand page.

#### **4808. Career Portfolio**

1. Member must have been enrolled in photography (5) or more years or member must be age 15 -19 & been enrolled in photography for at least (2) years.
2. Exhibit will consist of (10) 8 x 10 photos showing skill development in one of the following photography areas: Portraiture, Special Effects (not done with computer), Landscape, Photo Journalism, Black & White, Nature/Wildlife or Graphic Design (computer skills with photos). Photos must be the result of the current 4-H year.
3. Photos may be color except if Black and White option is chosen and must be unmounted.
4. An information sheet must accompany each photo giving brand and model of camera used to create the photo. The settings for focal length, aperture, mode and shutter speed must also be listed. Sheet can be downloaded from [Kansas4h.org](http://Kansas4h.org), if form fillable, and required.
5. A one page summary should accompany the portfolio listing the goal for pursuing this area of photography and what skills were learned. Mentors should be acknowledged. Career exploration can be described.
6. Exhibit will be presented in a notebook designed for portfolio review with pages for required information from #4 and #5.

## \*Project Notebooks/Displays



### Limit of 1 entry per class.

This class is for projects that do not have exhibit classes in the fair.

### Any of the classes below may be done over a pet project.

This class is for 4-H projects which do not lend themselves easily to fair exhibition. Educational project notebooks and displays are exhibited for a 4-H member to tell about something they learned in a 4-H project. It is important that notebooks and displays contain pertinent, easy to read information.

The following criteria will be considered when judging notebooks and displays:

#### General Appearance (30 Points)

- Neat, clean
- Printing or lettering well done
- Readability
- Sufficient space (margins) allowed around the edges and between lettering to read easily.
- Any additional art work added to the notebook or display.

Information (50 Points) –Accurate, Brief, Correct spelling, Central idea clear to reader

Organization (20 Points) -Easy to understand & Logical

208. \*Project Notebook

209. \*Educational Display

- must be the standard tri-fold board only maximum 3' wide x 4' tall

210. \*Educational Poster

- Must be flat and no larger than 22" x 28"

## 4-H Shooting Sports



- 1) National Minimum Standards and Best Practices <https://4-hshootingsports.org/wp-content/uploads/2024/01/12.13.23-Minimum-Standards-Update.pdf> MUST be followed as well as Kansas 4-H Shooting Sports Handbook. [https://bookstore.ksre.ksu.edu/pubs/kansas-4-h-shooting-sports-handbook\\_4H1101.pdf](https://bookstore.ksre.ksu.edu/pubs/kansas-4-h-shooting-sports-handbook_4H1101.pdf) Exhibits outside these standards will be disqualified.
- 2) The exhibit size rule will be strictly enforced. Exhibits exceeding the size guidelines will be disqualified. Maximum exhibit size for all exhibits in this division is 4'X6'. Larger exhibits will be turned away.
- 3) Exhibitors must comply with all state and federal laws and fair policies. Exhibits must not display, describe, or depict firearms or firearm components that are not allowed by 4-H Shooting Sports National Minimum Standards. No "live" ammunition containing propellant or explosive powders may be used in display! Artistic substitutes must be

used in lieu of powder and live ammunition - **label artistic substitutes on back for clarification.** The substitution must be clearly described on the back of the poster, display or in a notebook.

- 4) *Name, district/county, age and year in project* should be in a prominent location on the FRONT of exhibit unless special arrangements are made because of declination of publicity release
- 5) Exhibits will not be accepted if they are related to reloads.

**6200 Educational Display-** Must be directly related to the 4-H Shooting Sports project (standard tri-fold boards only, no larger than 3'x4', can add a topper that sits on top), no additional table space for promotional materials

**6201 Promotional Poster-** Promote 4-H Shooting Sports project (flat poster no larger than 22" x 30")

**6202 Notebook –** Contents pertain to some phase, story/information about 4-H Shooting Sports. Must be or larger than 8.5x11

**6203 Shooting Aid or Accessory -** Item 4-Her makes which helps shooter/hunter better perform their sport, examples: rifle sling, kneeling roll, arm guard, shotgun vest, target boxes, shooting stick, etc. Include your design, or adapted plans, what the item is and used for.

**6204 Storage Case -** Item 4-Her makes to safely hold a firearm, bow, ammunition, arrows EX: soft sided shotgun case, quivers, firearm safe, include design, or adapted plans. Explain how the storage case is used.

**6205 Practice Game or Activity –** Invent/adapt an activity to practice/teach a skill. Include pictures of playing the game, testimonials from players, skills being worked on, and directions. Explain how you came up with the game or adapted it to fit the needs of your group members.

## 4-H STEM



### **AG MECHANICS/SMALL ENGINES**

**Consultative judging. Sign-up sheet will be at check-in table see General Rules #7**

- 1) Each exhibitor may enter one exhibit per class.
- 2) **If bringing a trailer to be judged as your project, arrangements must be made with the fair board in advance for parking and display.**
- 3) Wheeled exhibits must have a braking mechanism
- 4) Exhibitor is responsible for providing “chocks” for each side of trailer exhibits. Two blocks should be connected so they do not become separated
- 5) For exhibits with downward swinging parts, such as tailgates, that could pose a fall/striking/crushing hazard should have a tamper resistant

- locking mechanism such as a “zip-tie” or a “cotter-key” through a release pin that would prevent the swinging part from being accidentally released
- 6) Each exhibit must be free-standing or sufficiently supported. Exhibit display boards should have a portable and moveable base and examples should be firmly affixed to the board to ensure all parts of the display stay together. No exhibits may be staked to the ground for display.
  - 7) Repair projects having adequate original finish need not be repainted
  - 8) Cutting surfaces, such as blades or knives, are to have a protective covering over them to prevent injury. The covering should be easily removed and reinstalled for judging.
  - 9) Exhibits that include weaponry of any kind will be disqualified.
  - 10) If the exhibit is powered by flammable liquids (gas, propane, kerosene, etc.) the fuel tank and lines should be drained and allowed to dry, to avoid spills and potential fires
  - 11) Electric powered (battery, corded, solar, or alternative energy) should have a primary shutoff or disconnect switch
  - 12) Exhibitor’s name(s) and county/district must be tagged or labeled in a prominent location on the display
  - 13) Exhibit must include an Ag Mechanics information packet and “4-H STEM Ag Mechanics Exhibit Information Form” available at <https://www.kansas4-h.org/events-activities/fairs/kansas-state-fair/> This form must be attached to the outside of a 10” x 13” manila envelope.
  - 14) Each exhibit information packet should include the following items:
    - a. Bill of materials for the project with associated costs, scrap items used may be listed as having a \$0.00 cost
    - b. 1 to 5 pages of photos showing work on the exhibit, preferably from a beginning state to final or completed state
    - c. Appropriate schematics or working drawings relating to the creation or repair
    - d. If appropriate operating instructions

**5560 – Welding project – repair or fabrication**

**5475 – Ag Mechanics/Welding Educational Display** see page 59 for details.

**SMALL ENGINES:**

All exhibits should involve engines smaller than 20 horsepower. Engine should contain no fuel in tank or carburetor. Displays are limited to 4’ wide and 4’ deep - both upright and floor displays.

1. May enter up to three items in this division, but only one per class
2. Each Small Engines exhibit must include a “4-H Small Engines Information Form”, which is available through your local Extension office or at <http://smallengines/engtechrks.com/> . This form must be attached to the outside of a 10’ X 13” manilla envelope. Place them inside the manilla

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

3. Items that have been in use should be cleaned for exhibit.
4. A sheet of operating instructions must be included in the packet furnished for any exhibit that is not self-explanatory.

### **Classes**

**4610 Display:** Exhibit a display, selecting one of the following options: 1) a display identifying different engine or lawn and garden equipment parts or a display showing the function of the various engine or lawn and garden equipment parts; OR 2) a display identifying and explaining the function(s) of different special tools needed for small engine work; OR 3) a display illustrating and providing the results of any one of experiments that are included in the project books. No complete engines, lawn tractors, tillers, chainsaws are permitted for display. Maximum tri-fold size is 3' x 4'.

**4611 Maintenance:** Exhibit a display that illustrates either: 1) Routine maintenance procedures OR 2) Diagnosing and troubleshooting specific problems in an engine. No complete engines, lawn tractors, tillers, chainsaws, etc. are permitted for display, using a maximum tri-fold size of 3' x 4'.

**4612 Operation:** Exhibit an operable small engine (no more than 20 HP) overhauled or rebuilt by the member. Include maintenance schedule for the engine and a brief description of steps taken by the member overhauling or rebuilding the engine.

## **ASTRONOMY**

**Consultative judging. Sign-up sheet will be at check-in table see General Rules #7**

1. Each exhibitor may enter one exhibit per class.
2. Telescopes entered in this division may be built from a kit or by original design. Pre-finished telescopes, which require no construction are not acceptable exhibits.
3. Telescopes are limited to no more than six feet in length. They must be placed on a stationary stand that does not allow the telescope to roll and/or fall over. The stand cannot extend past two feet in length or width.
4. Include a "4-H Astronomy Exhibit Information Form," which is available through your Extension office or at <https://www.engtech4ks.com/astronomy/>. This form must be attached to the outside of a 10" x 13" manila envelope. Do not tie the envelope to the exhibit. You must also include construction plans (or a photocopy) for the telescope and place it inside the manila envelope.
5. At least two photographs showing telescope construction and operation are 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. Up to 10 pages of pictures can be included.
6. The telescope must be properly assembled and painted with a smooth and uniform finish.
7. Telescopes designed by the exhibitor must be original, not a modification of an existing kit.
8. Exhibitor's name, county/district, age, and year(s) in project must be tagged on the telescope.

10. If a safety violation is noted by the judge/superintendent, the exhibitor will receive a participation ribbon

**5500** Telescope made from kit

**5501** Telescope made from original design

**5502** poster, display, notebook see details on page 58

### **BUILDING BLOCK ENGINEERING**

Each exhibitor may enter 1 entry.

1. Total exhibit dimensions may not exceed 2 feet high x 2 feet wide x 2 feet deep.
2. The minimum exhibit dimensions must be at least 6 inches wide and deep.
3. All exhibits are required to be placed in a sturdy see-through enclosure with a top, bottom, and 4 sides. A 'clear' tub turned upside down with the exhibit placed on the lid would be an acceptable enclosure. It may be desirable to place a cutting board or other hard surface between the lid and base plate of the exhibit to make it sturdier. The outer dimensions of the enclosure do not count towards the total exhibit dimensions but should not be excessive.
5. Gaps or cracks should not be visible between assembled blocks unless they fit with the story, for example an earthquake
6. The primary building component should be interlocking blocks, commonly referred to by the brand name of Lego®
7. Other components can be integrated into dioramas to illustrate architectural aspects that may be difficult to convey with traditional interlocking blocks, for example marbles for small round objects
8. The use of existing "store bought" sets for major elements of the display is not allowed, use of figurines from sets is allowed as is using individual bricks or small sub-assemblies to create something different than the set it came from. For example, a car hood or front end from a car kit could be used in a "car museum," just not the entire car. The intent of this is to ensure fairness among exhibitors and encourage maximum creativity instead of just following a set of plans.
9. Dioramas should be suitably complex and have multiple elements. For example, a camp site that has a log cabin, a tree fort, and a car.
10. All dioramas should have a story, which is part of the information pack, that describes what is happening in the diorama; this can be as simple (the nursery rhyme "Jack and Jill" for example) or complex as needed to explain to someone looking at the exhibit what is happening.
11. Vehicles that are intended to stay in a single place should be affixed to base plates with sticky tack, hot glue, or other method
12. Mechanical enhancements or motion elements that add motion to the diorama are acceptable and encouraged. For example, merry-go-rounds, doors, elevators, gears, marbles going down a channel, flapping wings, animatronics, etc. If included judges should be able to use them and instructions should be provided for operation either in the story or on a separate page.
13. Artistic designs, example recreating paintings like the "Mona Lisa" and structures like "David" are not permitted these exhibits should be displayed in Visual Arts.

14. The exhibitor's name and county/district must be tagged on the display. Additionally, the display case should have the exhibitor's information attached to both the lid and clear container as well.
15. Each exhibitor is required to complete the "4-H Building Block Engineering Exhibit Information Form" which is available through your local Extension office or at <http://blocks.engtech4ks.com/> . This form must be attached to the outside of a 10" x 13" manila envelope. Do not tie the envelope to the exhibit.
16. Each exhibit information packet should include the following items: a. 1 to 5 pages of photos showing work on the exhibit, preferably from a beginning state to final or completed state. Final pictures help in determining where a part might go in case something comes loose. b. If appropriate operating instructions for mechanical portions of the diorama

**5710** Interlocking diorama built from scratch

**5711** Educational poster, notebook, display – see class details on page 59

### **COMPUTER SCIENCE**

**Consultative judging. Sign-up sheet will be at check-in table see General Rules #7**

- 1) The actual construction of computer hardware (For example, building a computer, which would include computer components plugged into a motherboard, discrete circuitry soldered on a printed circuit board, or wire-wrapped circuitry) will be entered in the Electronics Division., except for exhibits entered in Class 5594.
- 2) If a safety violation is noted by the judge or superintendent the exhibitor's exhibit, at the judge's discretion, will be disqualified. A safety violation could include Malware, a virus, or any similar program.
- 3) All exhibits in the Computer Science division must be entered on a USB drive containing all supporting documents as listed below for each class.
  - a. The USB drive should be included in a manilla folder with the Computer Exhibit Form (found at <https://bit.ly/3QMbHtV> or your local extension office) attached to the front.
  - b. The USB drive should be labeled with the 4-H member's name and county.
- 4) Source code must be included on the USB drive for all computer programming projects coded by the 4-H member. This could include a .txt file, python file, Scratch URL, etc. Failure to include the source code will result in one ribbon deduction.



- 5) Each exhibit must include written operating instructions including how to locate, run, and use the project. Operating instructions should be printed and placed in the manilla envelope and included digitally on the USB drive.
- 6) Each exhibit must be accompanied by a typed requirements document included on the USB drive.
- a. The requirements document should be started at the beginning of the project. It will include a list of goals and requirements that the 4-H member wants to include or achieve in their final project.
  - b. The project requirements section is formatted as a checklist, with the 4-Her checking off what they accomplished and making adjustments throughout their work on the project as needed.
  - c. Flow charts, designs, or other diagrams may be included for computer programs to show the logical flow of the program as needed.
- 7) For coded computer programs, screenshots of the program will be displayed digitally at the state fair. Screenshots must be included electronically on the USB drive. For county fairs, it is recommended to print screenshots for display at fairs that don't have electronic displays available.
- 8) All electric components of micro controlled devices must be adequately covered or concealed with a protective enclosure. Paper is NOT considered an adequate enclosure or covering for electrical components.

**5590** Computer program, application, app, script, or coded system that is new and unique (not merely a file run in a program, such as a 'word document' or a picture drawn in 'Microsoft Paint').

**5591** Coded website built entirely by the 4-H Member (not using a pre-made template generator such as Wix or Squarespace). Items in this class could be coded in HTML, CSS, Javascript, Wordpress, or other web-based programming languages or platforms.

**5594** Microcontroller or microcomputer application - a small circuit board that is programmed to accomplish a specific task (projects built and programmed using Raspberry Pi, Arduino, etc.)

**5771** – Computer Science Educational poster, display, or notebook. See page 58 for details.

## **ROBOTICS**

**Consultative judging. Sign-up sheet will be at check-in table see General Rules #7**

1. Each exhibitor may enter one robot per class.
2. Each exhibit must include a robot, information packets are not a sufficient exhibit.

3. Robots must have automated articulated structures (arms, wheels, grippers, etc.). Game consoles that display on a screen are not robots and should either be entered in computer division or electronics. Robots requiring no assembly, just programming, are considered computer projects.
4. Robot dimensions should not exceed 2 feet high, by 2 feet wide, by 2 feet deep. If displayed in a case (not required) the outside case dimensions may should not be excessive and should have exhibitors info on both lid and cover.
5. Materials including but not limited to obstacles, spare batteries, and mats for testing the robot may be placed in a separate container, which is not included in the robots' dimensions, that container may not be larger than 576 cubic inches as measured along the outside of the container (Examples: 4" x 4" x 36" or 4" x 8" x 18" or 6" x 6" x 16"). The container, if used, and/or any large objects (such as mats or obstacles) should be labeled with the exhibitor's name(s) and county or district as they will be stored separately from the exhibit.
6. All electric components of the robot must be adequately covered or concealed with a protective enclosure.
7. Robots may be powered by an electrical, battery, water, air or solar source only. Junk drawer robots may be powered by a non-traditional power source. Robots powered by fossil fuels/flammable liquids will be disqualified. Robots that include weaponry of any kind will be disqualified.
8. **Remote controlled robots** are allowed under certain conditions provided that the robot is *not drivable*. Robots programmed on phones/tablets need to have a specific program created, using motion controls to move the robot are not acceptable, for example "press forward on the screen to make the robot go forward." Robotic arms (hydraulic or electric) are allowed. A remote is allowed, provided more than a single action happens when a single button is pressed on the remote, for example "a motor spins for 3 seconds, at which point an actuator is triggered, then the motor spins for 3 more seconds." Remote controlled cars, boats, planes and/or action figures, etc. are not allowed.
9. Each robot must be in working condition. The judges will operate each robot to evaluate its workmanship and its ability to complete its intended task. In the event the robot uses a phone, tablet, or similar device for programming AND control of the robot, a video can be used to evaluate the working condition of the robot.
10. Each exhibitor is required to complete the "4-H Robotics Exhibit Information Form" which is available at <https://www.kansas4-h.org/events-activities/fairs/kansas-state-fair/> This form must be attached to the outside of a 10" x 13" manila envelope.
11. The exhibit must include written instructions for operation (the instructions should be written as if they were to tell a grandparent or elderly person how to operate the robot), construction plans (do not need to be printed), a video, and one to five pages of project photographs. For robots that can be programmed, robot programming information must be included, this information should be placed inside the 10" x 13" manila envelope mentioned above. Robot programming information can be, but not limited to, source code, block diagrams, screen captures of the coding window, and

other images that show the programming logic used. The exhibitor may enter their robotics project listed under the electric and renewable energy project if the exhibitor so chooses. In the event that the robot uses a device like a phone, iPad, or tablet for programming AND operation, DO NOT leave the device at the fair. Bring it with you the day of judging.

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

13. Exhibitor’s name(s) and county/district must be labeled on the robot,

### **\*JR Division – 7 and 8year olds**

**\*5505a** Robot made from a commercial (purchased) kit. (No Programming just assembly)

**\*5506a** Robot designed and constructed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.

**\*5507a** Programmable robot made from a commercial (purchased) kit.

**\*5519a** Robot designed and constructed by exhibitor or from a commercial kit, that is operated by a remote controlled device

**\*5543a** Junk Drawer Robotics

### **Intermediate Division – 9 to 13 years old**

**5509** Robot made from a commercial (purchased) kit. (No Programming just assembly)

**5510** Robot designed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.

**5511** Programmable robot made from a commercial (purchased) kit.

**5546** Robot designed and constructed by exhibitor or from a commercial kit that is operated by a remote controlled device.

**5544** Junk Drawer Robotics-based curriculum robot

### **Senior Division – 14 and up**

**5513** Robot made from a commercial (purchased) kit. (No Programming just assembly)

**5514** Robot designed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.

**5515** Programmable robot made from a commercial (purchased) kit.

**5547** Robot designed and constructed by exhibitor or from a commercial kit that is operated by a remote controlled device.

**5545** Junk Drawer Robotics-based curriculum robot

### **Team Robotics Project**

**5517** Robot designed and constructed by two or more 4-H Robotics project members. The robot may be a programmable type that is made from a purchased kit. This division is designed to encourage teamwork and cooperation among fellow 4-H Robotics 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.

**5756** Robotics Educational display, notebook, poster. See details on page 59

## **ROCKETRY/AEROSPACE**

**Consultative judging. Sign-up sheet will be at check-in table see General Rules #7**

1. Each exhibitor may enter up to two rocket exhibits but in different classes.
2. The guidelines for rockets get very detailed. Please refer to the Kansas State Fair book for list of Rocket guidelines. The Kansas 4-H State Fair book is easily found by googling: "Kansas 4-H State Fair or copying this direct link: <https://www.kansas4-h.org/educational-experiences/fair-resources/kansas-state-fair/docs/2025/2025%20Clean%20Fairbook%203.25.25.pdf>

### **Division JR - Exhibitors 7 and 8 years old**

**5520a** Rocket made from kit. Include plans.

**5537a** Scale Model Rocket made from kit, include plans

### **Exhibitors 9 through 13 years old**

**5520** Rocket made from kit. Include plans.

**5537** Scale Model Rocket. Made from kit, include plans.

### **Exhibitors 11 through 13 years old**

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

**5538** Scale Model Rocket designed by exhibitor; not modification of an existing kit. Include original plans and stability testing.

### **Exhibitors 14 years and older**

**5525** Rocket made from kit. Include plans.

**5526** Rocket designed by exhibitor: not a modification of an existing kit. Include original plans.

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

**5535** High power rocket made from kit or original design.

**5536** Mid power rocket made from kit or original design.

**5539** Scale model rocket made from kit, include plans

**5540** Scale Model Rocket designed by exhibitor: not a modification of existing kit. Include original plans and stability testing.

**5741** Rocketry educational display, notebook, or poster. See page 58

### **UNCREWED AERIAL SYSTEMS (Drones)**

**Consultative judging. Sign-up sheet will be at check-in table see General Rules #7**

1. Each exhibitor may enter one exhibit per class.
2. The information that accompanies the UAVS must be limited to the 4-H Engineering & Technology Information Form which is affixed to a 10" x 13" envelope. This envelope should NOT be attached to the UAS.  
Downloaded from <http://uas.engtech4ks.com/>
3. Exhibitor's name, county or district, age, and years(s) in project must be tagged or labeled in a prominent location on the exhibit, educational display, notebook, and/or poster.
4. Uncrewed Aerial Systems that include or depict weaponry of any kind will be disqualified.
5. For scratch built UAs kits if modifications are made to the exhibit, a page should be attached noting these modifications.
6. For practical application entries, the UAS is not required to be displayed as part of the exhibit, only the supporting material.
7. The same UAS may be used by multiple exhibitors for different practical application entries.

#### **Classes – all age divisions:**

**5701** Uncrewed Aerial System designed and constructed by exhibitor that is operated by a remote-controlled device. The UAS must not be a mere modification of an existing kit or plan. You may not exhibit a UAS that is purchased off the shelf in this class.

**5702** Practical application of an Uncrewed Aerial System constructed from a commercial (purchased) kit. This includes one or more of the following: video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, and bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.

**5703** Educational exhibit. – see page 59 for guidelines

## VET SCIENCE

- 1) One entry per exhibitor
- 2) Exhibit may consist of a poster, notebook or project display.
- 3) If photographs are to be part of the exhibit, remember they will be viewed by the public. Make sure the photographs are in good taste and will not be offensive. Graphic photographs of excessive bleeding, trauma or painful procedures are not appropriate. For exhibits related to veterinary surgical procedures, aseptic techniques need to be shown, for example, use of drapes, use of sterile procedures, wearing of gloves and other appropriate veterinary medical practices.
- 4) First-Aid Kits: Because of public safety concerns and risk of theft of first-aid kit contents (veterinary drugs/equipment) with perceived potential for drug abuse, animal first aid kits containing any drugs or medications will be immediately disqualified and not displayed. First Aid kits wishing to include medication information should instead utilize written descriptions, photographs, drawings, computer generated print-outs or empty packaging of pharmaceuticals.
- 5) Veterinary Science Posters - a design that is simple and direct, unlike a display that usually presents more information, should not exceed 22" x 30" and may be either vertical or horizontal.
- 6) Veterinary Science Displays - A display may include but is not limited to: a 3- dimensional exhibit, a scale model, the actual product (for example: skeleton; teeth; samples of leather, fur, or dried skin damaged by disease or parasites) or a notebook. A display is not a poster. A display may be mounted on poster board not to exceed 22" x 28" or on 1/4" plywood or equivalent that does not exceed 24" high or 32" wide or in a three ring binder or another bound notebook format.
- 7) Veterinary Science Notebooks: Individual entries are to be place for display in a three-ring notebook for competition. Notebooks may not be larger than 8 1/2' x 11".
- 8) Name, county/district, age and year in project should be on the front of the poster, display or notebook.
- 9) Appropriate topics include: Maintaining Health Specific disease information Photographic display of normal and abnormal characteristics Animal health or safety Public health or safety Proper animal management to ensure food safety and quality Efficient and safe livestock working facilities A topic of the exhibitor's choosing related to veterinary medicine or science.
- 10) all references and information must be properly cited. Proper sources include but are not limited to: Professional journals and publications, professional AVMA accredited websites, interviews with veterinarians and excerpts from Veterinary Educational Literature. Plagiarism will result in a disqualification. Please study your topic and present the information to your

audience in your own words.

## **7000 - Veterinary Science Poster, Notebook or Display**

### **EDUCATION EXHIBITS FOR ALL STEM CLASSES**

**Consultative judging. Sign-up sheet will be at check-in table see General Rules #7**

1. The General Exhibit rules for ALL 4-H STEM categories apply.
- 11) For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed.
- 12) Exhibits in posters, notebooks and display boards must contain substantial supporting educational materials.
- 13) Educational display boards, posters and notebooks should be creative and showcase details about the knowledge learned in the project during the current 4-H year. Value is placed on youth who can demonstrate how their skills have increased while completing the project. Each exhibit will be judged on uniqueness, creativity, neatness, accuracy of material, knowledge gained, and content. For example, a rocket that may have crashed and/or is highly damaged may be made into an educational display or poster that tells a great story with many lessons learned.
- 14) An exhibit judging score sheet available at <http://blocks.engtech4ks.com/>.
- 15) Follow copyright laws. Sources of information must be cited on the front of your exhibit, including posters and educational display boards.
- 16) Educational displays are not to exceed a standard commercial 3'x 4' tri-fold display board. Care should be taken to use durable materials that will withstand fair conditions.
- 17) "Construction Kits" that are part of Educational displays must be contained in cases (tackle boxes, sealable containers, etc.) that may not be larger than 1' X 2' X 2' and must have a latch which securely keeps all components contained in the "Construction Kits". Other components are to adhere to appropriate dimensions as stated elsewhere.
- 18) Posters are limited to commercial 3' X 4' tri-fold display boards
- 19) Educational Project notebooks must be organized in a 3-ring binder.
- 20) Any three dimensional display exhibits may not be thicker than 2".
- 21) Engines and igniters for rockets ARE NOT permitted with the exhibit and constitute an immediate disqualification. This is for safety reasons and includes both spent and live engines.
- 22) Exhibitor's name, county or district, age, and year(s) in project must be tagged or labeled in a prominent location on the, notebook, and/or "Construction Kit." For education displays and/or posters the exhibitor's name, county, or district, age, and year(s) in project **must** be tagged or labeled on the back of the exhibit. Failure to label an exhibit may result in one ribbon placing deduction.
- 23) Exhibits should possess the following qualities (in no particular order):

A Central theme: What you want others to learn, Be designed and constructed in a manner befitting the exhibit, Be something you are interested in, Be related to anything listed under STEM in this book.

## Wildlife



1. One display/notebook entry and one experimental entry per youth.
2. **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. Wildlife on display must have a statement about how they were obtained legally. The use of live wild animals in educational exhibits is prohibited.
3. Wildlife exhibits that reflect harvesting of wildlife must follow National Minimum Standards and Best Practices <https://4-hshootingsports.org/wpcontent/uploads/2024/01/12.13.23-Minimum-Standards-Update.pdf> and Kansas 4-H Shooting Sports Handbook [https://bookstore.ksre.ksu.edu/pubs/kansas-4-hshooting-sports-handbook\\_4H1101.pdf](https://bookstore.ksre.ksu.edu/pubs/kansas-4-hshooting-sports-handbook_4H1101.pdf) and Kansas Fish and Game laws. Exhibits outside these standards will be disqualified.
4. Exhibits must not display, describe, or depict firearms or firearm components that are not allowed by 4-H Shooting Sports National Minimum Standards
5. Exhibits will not be accepted if they are related to reloads.
6. Maximum exhibit size for all exhibits in this division is 4'X6'.
7. Name, county/district, age and year in project should be in a prominent location on the exhibit.

### Display/Notebook Classes

**5400 Notebook.** Contents pertain to phase, results, story or info about wildlife project, no larger than 8 ½" x 11"

**5401 Promotional Poster.** Must be related to something learned in the wildlife project. (Flat poster board or foam board no larger than 22" x 28").

**5402 Educational Display.** Must be directly related to the wildlife project. Max tri-fold size is 3' x 4', no additional table space for display items

### Experiential/Other Classes

**5403 Fish Harvesting Equipment - (SF168) - Board exhibit.** Display of equipment used in fish harvesting. Examples: fishing knots, hooks (with corks over ends for safety), lures. Label all items displayed. Include in your exhibit the following information: the purpose of each item, when or where each item is used.

**5404 Build a Fishing Rod - (SF169) - A fishing rod educational exhibit may not exceed 96 inches in length. Exhibit must be mounted on a board. Include with**



the exhibit: Explanation of cost of materials/components and how many number of hours required for construction. Label all parts. Necessary components which must be included are grip, line guides (based on manufacturers specifications), guide wraps, and hook keeper. Reel seat needs to be aligned with guides, and guides aligned accurately down rod. Guide wraps of size A to D, nylon or silk thread. Exhibit will be judged on: workmanship, labeling of parts, information, and neatness.

**5405 Casting Target** - (SF170) - Make a casting target for exhibit and use. Target must be under 48" x 48". The bullseyes must be 2 feet, outer band must be 1 foot in diameter and can have up to 3 rings. The exhibit must be easy to store, durable, and weather resistant. Include the purpose and rules of using your casting target.

**5406 Wildlife Harvesting Equipment** - (SF171) - Board Exhibit. Display of equipment used in harvesting wildlife. Examples: expended ammunition casings (no live ammunition permitted), steel traps, hide stretchers, fleshers, etc. For displays of shotguns, rifles, or bows, use drawings or pictures. Label all items displayed: the purpose of each item, when or where it is used and personal experiences with the item.

**5407 Inventing Wildlife/Fish Harvesting Equipment, Aid or Accessory** - (SF168) - Use engineering principles to invent or adapt equipment that helps you harvest fish or wildlife. This could include wildlife calls, adapted fishing pole for shallow water, a blind, decoys, etc. Share your drawing (or adapted plans), how the equipment works, how you tested it, and the results of testing your prototype, and any adjustments you made.

**5408 Tanned Hides** - (SF172) - Exhibit of a wild animal hide properly processed by the member. If not mounted, must be in a clear clothing bag with hanger. all field experiences, study, OR observations that relate to the exhibit.

**5409 Taxidermy** - (SF172) - Any legal fish, bird, or other wild animal properly processed by the member. No requirement as to mounting. Include the animal's name and the following: information about the exhibitor's personal field experiences, study, OR observations that relate to the exhibit.

**5410 Wildlife Tracks** - (SF158) - Board or diorama-type box exhibit. Make a display of animal tracks using plaster-of-paris casts. There are 3 options. For all options, include a brief description of your experiences in making the tracks so the judges better understand what you did and learned. Positive casts (impressions as they would be in nature) are preferred. - Option 1 should show plaster-of-paris tracks of five or more kinds of wildlife along with a picture or illustration of each kind of animal. (OR) - Option 2 should show two or more plaster-of-paris tracks of one specific kind of wildlife and should include a picture or illustration of the animal, what the animal may eat, and what may eat the animal. (OR) - Option 3 should show two tracks and include the animal's habitat needs including preferred food, shelter, water, and space in addition to picture or illustration of the animal.

**5411 Wildlife Knowledge Check** - (SF159) - Use electrical circuits, pictures, or other methods of teaching wildlife identification or other wildlife conservation or shooting sports related knowledge. Plan size and shape to fit transportation and display; maximum size 24 x 24 inches.

**5412 - Houses** - (SF165) - Make a house for wildlife. Examples: bird house (bluebird, purple martin, wood duck, kestrel, barn owl, etc.) or bat house; no insect houses. Make the house functional so that dimensions, hole size etc. are appropriate to fit the intended species' needs. Include the following information: 1) the kinds of animal(s) for which the house is intended, 2) where and how the house should be located for best use, 3) any seasonal maintenance needed, and 4) any evidence of your personal observations from experiences.

**5413 Feeders/Waterers** - (SF166) - Make a bird bath or feeder. Examples: seed, suet, or nectar feeders. Squirrel feeder okay; no insect feeders. Include the following information: 1) the kinds of animal(s) for which the water/feeder is intended, 2) where and how the water/feeder should be located for best use, 3) any seasonal maintenance needed, and 4) any evidence of your personal observations or experiences.

## Woodworking



Superintendent:

**Each exhibitor may enter up to two woodworking articles.**

1. **The plan from which it was constructed must be with the article exhibited.** The plan may be a photocopy, 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. Step by Step instructions is not a plan.
2. Projects with missing or insufficient plans will be lowered one ribbon group. (I.e. blue exhibit will receive a red ribbon.)
3. Projects that have unsecured glass, i.e. glass shelves, glass top of a coffee table, etc. should not be brought to the fair. Glass that is secured in the project, i.e., glass front of a gun case or cabinet, etc., is permissible since it cannot be easily removed.
4. The entry card, plans and all other paperwork should be secured to the project in some manner. It is recommended to use a plastic bag with a hole punched through it and use string to tie this to the exhibit.
5. Refinished/repaired furniture should be exhibited in Home Environment - Single Exhibit, which is not state fair eligible.
6. Projects made from pre-cut kits are not allowed.
7. 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.
8. Firearms and weapons are not to be entered or displayed.
9. Projects with "fractal burning" are NOT ALLOWED. (Example – electrical burning to make black linework on artwork.)

**279.** Article made by 7 to 9 year old member

**280.** Article made by 10 to 13 year old member

**281.** Article made by 14 to 18 year old member