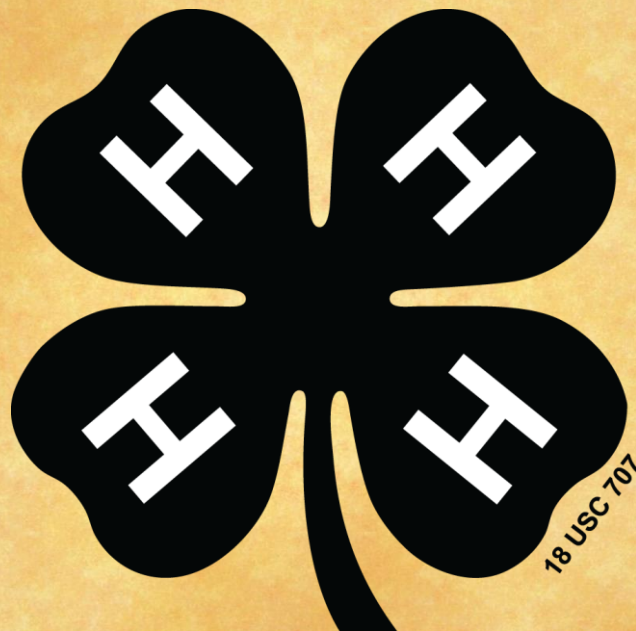


**WANTED!**

**LOOKING FOR**



**MEMBERS**

**NEOSHO COUNTY FAIR**

**JULY 19 -23, 2018**

## 2018 NEOSHO COUNTY FAIR EVENTS

### MONDAY, JULY 16

2:00 p.m. – Foods Judging – Neosho County Courthouse

**3:00 p.m.** Robotics, Computer, Unmanned Ariel Systems, Neosho County Courthouse

**4:00 p.m.** – SpaceTech –, Rocketry, Neosho County Courthouse

### TUESDAY, JULY 17

5-7 p.m. – Clothing Judging, Neosho County Courthouse

### THURSDAY, JULY 19

7:00 a.m.-10:00 a.m. – Livestock, Rabbit & Poultry Check-In \*Optional practice scales and can declare weight if acceptable

8:00 a.m.-10:00 a.m. - Check-in All Open Class Exhibits & 4-H Plant Sciences

10:00 a.m. – Judge Open Class – Indoor Exhibits

11:00 am – Opening Ceremony and Royalty Coronation

\*\* Livestock Exhibitor/Parent Meeting to Immediately Follow

1:00 p.m.-3:00 p.m. – 4-H Exhibit Check-in & Conference Judging of 4-H Exhibits, Photography Judging (assigned times)

7:00 pm – Sheep Show

8:00 pm TBA by Fair Board Assc.

### FRIDAY, JULY 20

8:00 a.m. – Swine Show

8:00 a.m. – Rabbit Show

12:30 – 1:30 pm – Jr Leader Activity?

2:00 pm – Public Style Revue, Show Arena

5:00 p.m. – Meat Goat Show

### SATURDAY, JULY 21

8:00 am – Bucket Calf Show & Beef Show

8:00 a.m. – Poultry Judging

9:00 a.m. – Dog Show

11:00 a.m. – Dairy Show

1:00 pm – Fun Activity

1:00 p.m. – FCS Judging & Photography Judging Contests

4:00 – 9:00 p.m. – Inflatables (wristbands \$5)

6:00 p.m. – Sand Volleyball

### SUNDAY, JULY 22

8:00 a.m. – Cowboy Church

8:00 am – Horse Show

1:00 pm – Tiny Tots Show

2:00 p.m. – Watermelon Feed (Sponsored by Taylor & Sons Angus), 4-H Creative Fitting & Showing Contest, Turtle Races, Greased Pig Contest

3:00 p.m. – Kiddy Tractor Pull

6:00 p.m.-8:00 p.m. – Family Swim

9:00 p.m.-11:00 p.m. – Youth Dance

### MONDAY, JULY 23

8:30 am – Round Robin Showmanship Competition

\*\* Immediately following Round Robin - Livestock Judging Contest (no earlier than 10:30 am start time)

5:30 p.m. – Awards Presentation

6:00 p.m. –Bar-B-Que Dinner

7:30 p.m. – Check-out Begins for All Exhibits (except animals)

7:30 p.m. – Premium Sale

10:00 pm – Check-out of animals going home and all decorations can come down

### TUESDAY, JULY 24

6:00 p.m. – 4-H members & adults should assist with clean-up & 'closing up' tasks of the fair. (Pizza to follow provided by Emprise Bank)

## FAIR ACTIVITIES OPEN TO THE PUBLIC

SUNDAY, JULY 22

1:00 P.M. IN SHOW BARN:

### TINY TOTS BUCKET CALF, LAMB, & GOAT SHOW

- Youth ages 4-7 years who know a 4-H member, whose bucket calf, meat goat or lamb they can use to show. (must ask permission of 4-H member to use their animal)
- Rules: Lamb, goat or calf must have a halter
  - No show sticks or combs may be used with bucket calf
  - No open toed shoes
  - If child is under 5 years, the owner of the animal must be present in the show ring.
- All contestants will receive a participation ribbon

### TURTLE RACE

- Two divisions: water turtle/snapper & box turtle/ground
- All contestants will receive a coupon for a free drink from the concession stand compliments of the Neosho County Fair Association

### GREASED PIG CONTEST

- The contest will be divided by age and gender: 5-7 years; 8-11 years; 12-14 years
- All contestants will receive a coupon for a free drink from the concession stand compliments of the Neosho County Fair Association

### CREATIVE FITTING & SHOWING CONTEST: (Sponsored by Loy & Janis Reinhardt)

- 4-H members – would you like to dress yourself and your animal up in a look-a-like contest?
- You do not have to own the animal for this contest, and just a costume for you and an animal.
- You should have a 'title theme' – and on a 3x5 card write a short story about yourself.
- You may include how you chose the title/theme, something about your animal, your name/age, 4-H club; and hobbies that will be read about you as you enter the show ring.
- Prizes will be given for first, second and third placing. Each 4-H club is challenged to have at least one entry in the contest.

### 3:00 p.m. – KIDDY TRACTOR PULL

- Age divisions are 4-12 years, with the boys and girls in each age division competing against each other.
- First place & second place will receive a trophy, and will be eligible to participate in the State Kiddy Tractor Pull at the Kansas State Fair in Hutchinson.
- All contestants will receive a coupon for a free drink from the concession stand compliments of Neosho County Farm Bureau, the sponsor of the Kiddy Tractor Pull.

## 4-H AND FFA GENREAL RULES

1. Neosho County 4-H members, who have enrolled online by January 1, 2018 are eligible to exhibit at the County Fair.
2. The Neosho County Fair is the official county 4-H fair, all members desiring to exhibit projects in out-of-county competition must exhibit at this fair.
3. A fair entry form must be completed by each 4-H exhibitor, listing each class they would like to exhibit an entry in. If more than one entry per class is allowed, each entry must be listed separately on fair entry form. Entry forms are due to the Southwind District Erie office on or before June 15<sup>th</sup>. Late entries will be accepted from June 16<sup>th</sup> through July 1<sup>st</sup> with a \$25 late fee per exhibitor. NO entries will be accepted after July 1<sup>st</sup>.
4. All entries must be from the current 4-H year, work of the 4-H'er, and owned solely by the exhibitor, with the exception of horses. Exhibitors must be enrolled in the projects which the exhibit represents as shown in 4HOnline, by May 1<sup>st</sup>.
5. Age (as of December 31<sup>st</sup> of current year) for entries made by age level are: Junior (7-9); Intermediate (10-13); and Senior (14 and older).
6. An entry tag is to be attached to each exhibit entered in the 4-H Building with tape, string, or rubber band. Entry tags can be picked up from the Southwind District Erie office, date will be announced for pick up.
7. Items for the 4-H Exhibit Building can be entered starting at 1:00 p.m. Conference Judging is optional
8. Exhibits by members 9 years and older earning a purple ribbon may be eligible for the Kansas State Fair. 4-H members are responsible for checking with the Extension office for eligibility before August 10<sup>th</sup>.
9. All exhibits are to remain on the fairgrounds from the time of entry until scheduled release. NO EXCEPTIONS.
10. Superintendents, Extension Agents, and Fair Board are not responsible for exhibits left after exhibit release.
11. Neither Neosho County Fair Association, Southwind Extension District nor 4-H Development are liable for the loss of damage of any personal property.
12. 4-H premiums will be paid after clean-up is completed on Tuesday, July 24<sup>th</sup>, given to club leaders to distribute. 4-H premium money not picked up at the clean-up will be given to community club leaders for pick-up.
13. Please see rules for Indoor and Livestock Departments.
14. Rather than designating prizes as first, second and third, exhibitors will be placed in the purple, blue, red and white ribbon groups based on the Danish System. The ribbons and requirements are:
  - Purple – An outstanding exhibit that met all class requirements, containing few, if any flaws.
  - Blue – A very good exhibit that met all class requirements, containing few flaws and well above minimum standards.
  - Red – A good exhibit that met all class requirements and was slightly above minimum standards. Although displaying good effort, the exhibit contained several flaws.
  - White – An average exhibit that met all class requirements, but was below minimum standards, containing several flaws and considerable room for improvement exists.
- A Grand Champion and Reserve Champion Rosette Ribbon may be awarded in each project based on recommendation by Judge.

15. The amount of money appropriated will vary with the placing. Cash prizes will be paid on purple, blue, red and white ribbons.

Premium money will be:

Grand Champion	\$2.00
Reserve Champion	\$1.75
Purple	\$1.25
Blue	\$1.00
Red	\$ .75
White	\$ .50

Showmanship classes and green participation ribbons do not receive any premium money.

#### 4-H AND FFA GENERAL RULES – INDOOR EXHIBITS

1. Exhibits must be in place by 10:00 a.m. on Thursday, July 19<sup>th</sup>. Exhibitors are not to remove their indoor exhibits until 7.30 p.m. or their animals until 10:00 p.m. on Monday evening, July 23<sup>rd</sup>.
2. Name of exhibitor, age, address, name of club or chapter, name of article or variety, must be securely attached to all indoor exhibits.
3. No exhibit will leave fairgrounds unless approved by the project superintendent and project related Agent.
4. Any exhibits removed prior to 7.30 p.m. on July 23<sup>rd</sup> without project superintendent approval will forfeit ribbon premium money for all projects.
5. Exhibitors must own projects being exhibited. Exhibitors must be enrolled in the projects which the exhibit represents as shown in 4HOnline.
6. No clean-up or tear down will be allowed until after 10:00 p.m. or otherwise announced.
7. **EDUCATIONAL EXHIBITS:**
8. Must be related to the 4-H project. Content pertains to some phase, result, story information or promotion of 4-H project.
9. **EXHIBITS CRITERIA:**
10. Posters (must be flat and no larger than 22"x28").
11. Displays (standard tri-fold boards only, no larger than 3'x4').
12. Notebooks must be current year. No card table displays are allowed.
13. Name, district, age and year in project should be in a prominent location on the exhibit.
14. **COPYRIGHTING:**
15. Exhibitors should avoid using copyrighted materials (a brand name, product, slogan) whenever possible by originating his/her own work. Copyrighted and/or trademarked materials should not be used in banners, displays, posters, or in other ways.

#### 4-H AND FFA GENERAL RULES – OUTDOOR EXHIBITS

Stall reservations are due by: July 1 to the Extension Office.

Rabbit reservations are due by: July 1 to Southwind Extension District, 111 S. Butler, Erie, KS 66733

1. Exhibits must be in place by 10:00 a.m. on Thursday, July 19<sup>th</sup>. Exhibitors are not to remove their indoor exhibits until 7.30 p.m. or their animals until 10:00 p.m. on Monday evening, July 23<sup>rd</sup>.
2. You must own the animal to compete in the showmanship except in horseless horse.
3. Health requirements will be enforced for all animal exhibitors.
4. Upon arrival at the fairgrounds, 4-H Livestock exhibits will be taken directly to each department where the superintendent will enter your name in the appropriate division. No exhibit will leave fairgrounds unless approved by the project superintendent and project related Agent.
5. Any exhibits removed prior to 7.30 p.m. on July 23<sup>rd</sup> without project superintendent approval will forfeit ribbon premium money for all projects.
6. All livestock exhibitors will have an entry card with them upon entering the show arena.
  - Livestock does not use an entry tag. They have their own card.
  - Each livestock exhibitor will have an entry card with them when they enter the show ring, stating their name, age, club, and the class in which they are exhibiting.
  - When the judge has announced the winners in the livestock class, the entry card will be collected and marked with the placing and given to the adult in charge of recording the placing in the superintendent's book.
  - The livestock entry cards are kept with the superintendent's book.
7. Competition in the livestock and crops classes is open to any bona fide 4-H or FFA member in Neosho County. All other classes in this department are limited to 4-H members who have not passed their 19<sup>th</sup> birthday by January 1, and who were seven (7) by January 1 of the current year.
  - Livestock exhibitors must be on hand to exhibit their animals.
  - If exhibitor has two entries in the same class, the **4-H member or FFA** member may ask another Neosho County member to assist him/her, provided it meets with the approval of the superintendent of the department.
  - All animals must show in the show arena to receive any awards and/or premiums and to be eligible to sell in the 4-H livestock sale.
  - All exhibitors showing in the show ring and selling in the livestock sale (this includes those selling foods) must wear shirts with collars, tucked in; close-toed shoes; no ball caps; and no logos 'showing' on any article of clothing – excluding manufacturer's logos (Wranglers, Levi, etc.).
8. Clean-up by departments:
  - Livestock project members will clean the barns and remove all hay, etc. on Tuesday, July 24<sup>th</sup> at 6:00 p.m.
  - No 4-H member is to be in livestock barns following the sale. No clean-up or tear down will be allowed in the barns until after 10:00 p.m. or otherwise announced, following the sale.
  - Rabbit project members will clean their own building.
  - 4-H & FFA members will be required to keep their stalls clean during the fair.
  - No stalls can be cleaned during the livestock sale.
9. 4-H premiums will be paid after clean-up is completed on Tuesday, July 24<sup>th</sup>, given to club leaders to distribute.
  - 4-H premium money not picked up at the clean-up will be given to community club leaders for pick-up
  - The premium money for livestock sold at the livestock sale will be collected directly by the 4-H member from the business or merchant.
  - The base bid money can be picked up at the Extension office after August 9<sup>th</sup>.
10. No entry fee or stall rent is required in the 4-H & FFA division.
  - Neosho County Fair Board reserve the right to dismiss from a class any exhibitor treating their animal in a cruel and/or inhumane manner.
  - Members enrolled in livestock project must request stalls by July 1<sup>st</sup> postmark.
  - Club members' animals will be stalled together, as space is available.
  - All stalls will be assigned.
  - Once an animal leaves the fairgrounds, they cannot be re-admitted.
  - Animals must be in their stalls unless being showed, groomed, exercised or watered. Beef animals may tie-out between the hours of 9:00 p.m. and 9:00 a.m.
  - The horse barn will be kept full during the week.
  - During the show, no animal or exhibitor will enter the show ring, unless the superintendent approves the class to enter. Adults must remain at least 5 feet away while animals are being shown. Violation of this rule may disqualify exhibitor. This rule applies to all projects being exhibited by 4-H members.



- Only 4-H & FFA members of Neosho County, their parents, project leaders, advisors and members of the immediate family (defined as parents or legal guardian, grandparents and 4-H siblings) will be allowed to help to fit animals at the fair.
  - Under special circumstances to be approved by the 4-H Council and the fair board, a 4-H or FFA member may appoint another member to show his/hers animal.
11. In classes with only one exhibitor, the judge reserves the right to place the exhibit or animal in the ribbon group they see fit.

#### **NOTE: FAIR GRIEVANCE BOARD**

- All protests must be made in writing by the owner of the exhibit and signed by the individual writing the protest. A fee of \$25 must also accompany the grievance.
- For a 4-H member and FFA member the protest must also be signed by an adult.
- If the protest involves the judging or placing of an exhibit, grievance must be filed within one (1) hour after conclusion of judging of that event.
- All grievances must be filed by 11:00 a.m. the closing day of fair.
- Protest must be made to a fair grievance board, consisting of one 4-H council member and one adult from the 4-H council, one member of the fair board and two members of the 4-H program development committee.
- No complaints are to be voiced or written to the County Extension office or their employees.
- Judges decisions are final in all exhibits and contests.

#### **ROUND ROBIN SHOWMANSHIP**

- The champion showman in both the senior and intermediate divisions of the beef, dairy goat, meat goat, swine, sheep, horse, dairy cattle and dog showmanship events are eligible to compete.
- 4-H members must show their own animal in their class to be judged and then allow that same animal to be shown in the ring by their senior/intermediate competitors respectively. Each 4-H member will show the other animals for a specified time limit.
- If a 4-H member wins in more than one species, they may choose which specie to show and an alternate will be selected to show the other species.
- Alternates are chosen by descending order of showmanship class placing.
- Please notify the fair office by **Sunday, July 22<sup>nd</sup> at 3:00 p.m.** as to your participation intentions.

#### **HERDSMANSHIP AWARD**

- Plaques will be given (in most livestock species) to the 4-H'er that keeps their stall neat, clean and the animals well cared for during the county fair.

#### **RULES AND REGULATIONS CONCERNING 4-H/FFA FAT LIVESTOCK SALE**

- Each animal will be treated as an individual project.
  - Each person may sell only one market animal in the market livestock sale.
- All livestock must be shown at the Neosho County fair in the respective class to be eligible to enter the sale.
- Breeding animals will not be eligible to be sold at the sale.
- Eligible sale weights:
  - Market hogs 225-300 pounds
  - Market lambs 95-155 pounds
  - Market meat goats 50-120 pounds
  - Market steers 1,000 pounds
  - Feeder calves minimum of 600, maximum of 900 pounds.
- Livestock entered in the sale must be weighed according to rules of the Fair Association.
  - Scales will close at 10:00 a.m. on July 19<sup>th</sup>.
- Bids at the livestock sale will be per head.
- Should any dispute arise concerning eligibility or requirement, the fair board decision is final.
- All 4-H/FFA members must be present to sell animals at the premium sale unless they are on a 4-H/FFA sponsored event or personal injury, illness or the death of a family member preventing them from being present.
- A \$7.00 fee, to cover ribbons and other sale expenses will be charged for each animal sold during the sale.
  - If the animal is sold for base bid only, the 4-H member will be charged a \$7.00 service fee.
  - The fee will be taken from the base bid check.
  - If you have a hold animal, then the \$7.00 sale fee will be due to the Fair Association.
  - The 4-H member will make a check directly to the Neosho County Fair Association and give it to the Extension office by August 6<sup>th</sup>.
- All base bids will be posted.
  - Base bid will be accepted with no shrink on weights.
- All 4-H'ers selling animals will notify the fair office by written form by 8:00 p.m. Saturday.
  - If the disposition form is not turned in by this time, there will be a \$25.00 fee charged to the 4-H member.
- Any animal sold in the livestock sale becomes the property of the base or premium (HOLD) bidder.
  - 4-H members that had an animal held back during the sale by a premium bidder must go directly to the buyer and collect the base bid plus premium in one check.
  - The 4-H'er will owe \$7.00 to the Fair Association for the sale fee, as explained in statement #9.
- All animals will be penned after the sale, so each superintendent can check identification numbers and see the correct animals are loaded on the truck.
  - The base bid money and premium money for livestock purchased by the Neosho County Merchant's Fund, may be picked up at the Extension office in Erie, after August 9<sup>th</sup>.
  - If your animal was purchased by a business or an individual, you may collect from them after the fair.

**HEALTH REQUIREMENTS FOR ALL ANIMALS EXHIBITING AT THE NEOSHO COUNTY FAIR & KANSAS STATE FAIR GENERAL REQUIREMENTS (KANSAS ORIGIN):**

- All animals may be examined by a veterinarian after 10:00 a.m., Thursday, July 19<sup>th</sup>.
- All animals found to be affected by lesions of ringworm, warts, active pinkeye, infected with mange, or other adverse health conditions as determined by attending veterinarian will not be permitted to exhibit. Veterinarian ruling is final.
- All animals shall be free of clinical signs of infectious or contagious disease.
- No livestock from herds under quarantine by the State Livestock Sanitary Commissioner will be accepted.
- All animals will be checked and approved by the department superintendent before animals are penned.
- Superintendents will be at fairgrounds at 7:00 a.m. on check-in day, livestock cannot be penned until approved by the superintendent of the department.

**CATTLE – IN ADDITION TO THE GENERAL REQUIREMENTS:**

- Cattle, except steers and spayed heifers, originating from a state other than Kansas, of test eligible age (females, 18 months of age and older; bull, 12 months of age and older) must meet the following requirements:
  - Originate from “brucellosis-free” state.
  - Originate in and constitute a part of a certified brucellosis-free herd.
  - Herd certification number must be entered on the health certificate.
  - Originate from a Kansas dairy herd that has had four consecutive negative current milk ring tests.
  - Present evidence of the health certificate that the animal has been tested negative for brucellosis at an approved state/federal laboratory within 30 days of the exhibition date.
  - All heifers including official calf hood vaccinates that are springers (except to calve within two weeks) or have calved are test eligible regardless of age.
  - Beef cattle (except steers and spayed heifers), six months or older, not originating from a tuberculosis-free state shall be tested negative for tuberculosis within 60 days prior to the exhibition date.
  - Cattle originating from Modified Accredited Advance or Modified Accredited Tuberculosis states or zones must move directly from a Tuberculosis Accredited free herd, or have tested negative for tuberculosis within 60 days of entry into Kansas.
  - All dairy cattle, 6 months of age and older, not originating from Kansas, must have a negative TB test within 90 days of exhibition.
  - The Kansas Animal Health Department requires no tests on cattle of Kansas origin.

**SWINE – IN ADDITION TO THE GENERAL REQUIREMENTS:**

- Kansas has obtained Stage V status in the national pseudo-rabies program and the state is classified free of swine brucellosis.
- A negative pseudo-rabies and brucellosis test are not required for Kansas original swine.

**SHEEP – IN ADDITION TO THE GENERAL REQUIREMENTS:**

- All sheep shall be free of clinical signs of infectious disease and free of any signs of ‘sore mouth’.
- Be free of signs of active fungal (ringworm) infection, including ‘sore’ mouth.
- All sexually intact (ewes and rams) and wethers must be identified with an official USDAA premise ID tag.

**GOATS – IN ADDITION TO THE GENERAL REQUIREMENTS:**

- All goats shall be free of signs of active fungal (ringworm) infection, including ‘sore’ mouth.
- All sexually intact (does and bucks) and wethers must be identified with a registered tattoo or an official USDA premise ID tag.

**HORSES – IN ADDITION TO THE GENERAL REQUIREMENTS:**

- A negative Coggins test within 12 months of the show for equine infectious anemia must accompany the health certificate.
- Test results must be shown on a VS 10-11 form.
- Foals, six months of age or younger, accompanying their negative dams, are exempt from EIA test requirements.
- All horses shall be free of clinical signs of infectious or contagious disease.
- Kansas does not require vaccination for West Nile Virus.

**DOGS – IN ADDITION TO THE GENERAL REQUIREMENTS:**

- State 4-H Dog Show Immunization Record, MG-34 will be required.
- Proof of rabies vaccination signed by a graduate, licensed, accredited veterinarian will be required.
- All dogs must be immunized for distemper, hepatitis, parvo-virus, and parainfluenza, Leptospirosis, carona-virus, bordetella are also recommended.
- All vaccinations must be current and contain a veterinarian stamp.
- Any dog with a contagious, communicable, or infectious disease or condition cannot be shown. This includes warts, ringworm, lice, and mange.

**POULTRY – IN ADDITION TO THE GENERAL REQUIREMENTS:**

- All poultry, except waterfowl, must show proof that they are pullorum-typhoid clean by one of the following methods:
  - Originate from a U.S. Pullorum-Typhoid clean flock as evidence by an official VS Form 9-2, certifying all birds in the flock over four months of age have had a negative test for pollorum-typhoid within the past year.
  - Present evidence that the entries were purchased from a U.S. Pullorum-Typhoid clean source and have been the only poultry on the premises (*Presentation of a VS9-3 Form received when poultry were purchased*).
  - Present an official VS 9-2 Form, signed by an official testing agent showing the entries have had a negative pullorum-typhoid test within the proceeding 90 days.
  - If an official tester is on site at the county fair, entries may be tested at the time of entry. A VS 9-2 Form must be completed for each entry. If any birds in an entry test positive for pullorum-typhoid, the entire entry as well as all other birds from the same premises will be refused.

## BANNERS

Read Rules for [4-H & FFA General Rules](#)

- Banners should be entered between 1:00 p.m. and 5:00 p.m. on Thursday and may not be removed before 7:30 Monday.
- Prize money will be forfeited if removed without permission.
- Banners will be placed in a blue, red or white group and will receive a ribbon and prize money, a grand champion and a reserve champion will be selected by the judge and awarded ribbons.
- Each 4-H club may enter one banner in the judging competition.
- Banners should illustrate a phase of 4-H work which is being practiced by youth in 4-H or promote 4-H generally.
- Dimensions are to be no less than 12 and not more than 16 square feet and must be hung with a wooden dowel stick with a cord attached, from end to end of the stick and able to support the banner and hung from a peg board. ('S' hook is for state fair only).
- Banners should be made of materials that permit the banner to be folded or rolled without damaging the display.
- Three-dimensional objects may not be attached to the banner.
- Make sure to label the front left-hand corner (as you face it) giving the name of the club, county and year. Letters should be 2" in height.
- Letters should be 2" in height, waterproof ink is recommended.
- Clubs should strive for original work, avoiding copyrighted material. Written copyright permission is to be obtained and attached to the exhibit if copyrighted material is used.
- Copyrighted and/or trademarked materials utilized in banners for endorsement or promotion instead of educational purposes will be disqualified and not displayed.

Score Card:           General appearance and attractiveness -----25  
                          Presentation, originality and initiative-----20  
                          Emphasis on one central idea-----25  
                          Education value the application of 4-H work----30

The Chanute Kiwanis Club will provide a traveling trophy and \$25.00 to the 4-H club exhibiting the champion banner.

- You will need to have on each end of the banner rod, a wire.
- One end of the wire will be fastened to the end of the rod, an 'S' hook will be connected to the other end, permitting hanging.
- There will not be any banners sent to the State Fair.

## BEEF

Judging Date: Saturday, July 21 at 8:00 a.m. following the Bucket Calf show at 8:00 am.

Read Rules for [4-H & FFA General Rules](#)

1. Each exhibitor is limited to two animals in any particular class.
2. Livestock exhibitors must exhibit animals. If exhibitor has two entries in the same class, the 4-H/FFA member may ask another member to assist him/her, provided it is approved by the superintendent of the department.
3. In classes with only one exhibitor, the judge reserve the right to place the animal in the ribbon group of their choice.
4. All livestock exhibitors are to have an entry card with them upon entering the show arena.
  - Livestock will place: Purple – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Blue – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Red – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, etc.
5. Market Steer classes will be judged by weight classes. First and second place in each eligible weight class will show for grand a reserve champion. They will be divided into classes in numbers suitable for judging.
6. The following classes are provided for the breeding heifer class: Angus, Brahman, Charolais, Chianina, Gelbvieh, Hereford, Limosine, Shorthorn, Santa Gertrudis, Simmental, Maine-Anjou, and Commercial.
  - Animals may not show in both breeding and market classes.
  - All beef steers must be knife cut or banded, no later than 60 days before the fair.

## Market Steer

1398. Market Steer

- Member must own, feed and manage one or more steer calves for a minimum of 140 days.
- Must weigh a minimum 1000 pounds to be eligible for grand or reserve champion and to sell in the premium sale.

1399. Feeder Beef

- Member must own, feed and manage one or more feeder calves for a minimum of 140 days.
- Must weigh a minimum of 600 pounds, maximum of 900 pounds to be eligible for grand or reserve champion and to sell in the premium sale.
- Feeder calf will be judged on the finished potential the animal will have at the feedlot.
- Needs to be in good flesh (not thin or fat) and exhibit quality that will enhance the market value at the time of sale to a packer. For example: be a frame size that will reach a desirable weight at the end of the feeding period and able to grow at an economical rate.

1402. Commercial Breeding Heifers

- Member must own, feed and manage one or more commercial heifers or cows for breeding purposes.

1403. Registered Breeding Heifers

- Member must own, feed and manage one or more registered heifers or cows for breeding purposes.
- To exhibit, members must have registration or transfer papers in their names by July 1<sup>st</sup>.

1404. Cow-Calf

- Member must own, feed and manage one or more beef cows through gestation, calving and production period.
- Keep production records on each current lactation.

## Beef Showmanship

- All exhibitors in beef classes are eligible to enter.
  - Age is determined as of January 1<sup>st</sup> of present year.
1407. Senior Division, 14 and over  
1408. Intermediate Division, 10-13 years  
1409. Junior Division, 7-9 years

## Bucket Calf – Saturday, July 21 @ 8:00 a.m.

- Members, 7-12 years old, should learn about the care and management of a newborn fed on the bucket or bottle.
- Calf must be born from January 1<sup>st</sup>-May 1<sup>st</sup> of current year, and cared for within two weeks of birth.
- Calf may be male or female, either dairy, beef or cross and be fed on the bucket or bottle.
- Bucket calves will be judged on the following basis:
  - a) What the 4-H'er has learned about caring for and raising the calf.
  - b) How much the 4-H'er has learned and can do without parental help will be emphasized.
  - c) The general health of the calf and knowledge of the 4-H'er in health related area.
  - d) The quality of the animal is not the key importance when judging.
- Age of the 4-H'er is determined as of January 1<sup>st</sup> of the present year.

## Bucket Calf

1410. 4-H'er age 10-12 years  
1411. 4-H'er age 7-9 years

## CITIZENSHIP

Read Rules for [4-H & FFA General Rules](#)

**Topics include:** Me, My Family & Friends; My Neighborhood; My Clubs & Groups; My Community; My Government; My Heritage; My Heritage; My World; The World Around Me; Peoples & Customs of the World; Youth PRIDE

2050. Notebook

## CLOTHING & TEXTILES

Judging Date: **Tuesday, July 17<sup>th</sup> 5pm-7pm (Courthouse Basement)**

Read Rules for [4-H & FFA General Rules](#)

## CONSTRUCTION

1. Exhibitors must be enrolled in the Clothing and Textiles project.
  2. There is no limit to the number of articles, garments, outfits that may be entered. 1 educational exhibit.
  3. Pre-cut kits are acceptable in all clothing classes.
  4. Garment should be carefully cleaned and pressed before being exhibited. Since care labels are not always available, no care label will be required, however 4-H member should know the fiber content and care instructions for fabric purchased. Labels: Type or print on 3"x2" piece of cloth: name, class number, county/district name. Sew labels on inside of garment (back of neck, center back of waistband, or left end of apron band). Label each piece.
  5. Recycled Clothing project: An item made of at least 50% recycled material (recycled means reusing as 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 "before" picture of the garment or item being recycled is required for judging and should be attached to judging form. An index card (no larger than 4"x6") must accompany entry describing the recycled materials and how they were used in the item.
  6. Educational Exhibit: Share with others what you learned in this project. Exhibits may be in the form of a poster, notebook or display. Follow copyright laws as explained in General Rules as you are preparing your exhibit. No card table displays are allowed. If the exhibit is poster, it must not be larger than 22"x28". If the exhibit is a display, maximum size is not to exceed a standard commercial 3'x4' tri-fold display board. Name and county/district must be clearly marked on educational exhibits.
1560. Articles, garments, or outfits constructed by 7-9 year old exhibitor.  
1561. Articles, garments, or outfits constructed by 10-13 year old exhibitor.  
1562. Articles, garments, or outfits constructed by 14-18 year old exhibitor.  
1563. Recycled Clothing Project – An item made of at least 50% recycled material (recycled means reusing an existing item in a new way). Could be remaking/redesigning a garment, re-purposing a clothing item for a new use, etc. Must include sewing of some kind. A 3"x5" index card **MUST** accompany entry describing the recycled materials and how they were used in the item.
1577. **Educational exhibit per age group.**

## CONSTRUCTION STYLE REVUE

- Majority of the outfit must be constructed by the 4-H'er in the project. Everything which is commonly considered an outer garment must be constructed (vest, jacket, dress, skirt, pants, coat, etc. A sweater, blouse or shirt can be purchased or made.
  - The contestants will be judged on the complete ensemble, accessories, posture, etc.
  - Exhibitor may model up to FIVE garments or outfits.
  - Members will proceed as they are ready and come before the judge individually.
  - **Absolutely NO PRIMPING/PREPPING within the line waiting to be judged.**
1564. Garment or Outfit Constructed by exhibitor.

## BUYMANSHIP

- Member must be enrolled in the Buymanship Project to enter in the Style Revue, Buymanship Class.
- Purchase one outfit or part of an outfit that fits into your clothing plan.
- Be prepared to answer questions posed by the judges regarding cost, care, clothing budget, wardrobe plan, etc.



### **Buymanship – Girls**

- 1576. Casual Wear – school clothes – slacks, shorts, sun dress, etc.
- 1578. Dress Outfit – suits, dress up dresses, other than formal wear.
- 1579. Formal Wear – all formals go in this category (prom dresses, tea length formal wear, etc.

### **Buymanship – Boys**

- 1580. Dress up Outfit – dress pants, shirt, may or may not have a jacket, coat or sweater. Tie optional. No jeans.
- 1581. Casual Wear – school clothes; jeans, khaki, shorts, and shirt.

### **Buying Power – any age or gender.**

1582. Buying Power:

One goal when shopping is to get the most that you can out of your purchase. 4-H members can choose ONE outfit/garment they purchased to enter in this category.

- Choose ONE of your purchased garments.
- Create a Notebook for this project, including the following:
  - Include a title page, and a short story of challenges, experiences, what you learned, etc. by doing the Buying Power Class.
  - Show, IN PICTURES, how many ways you were able to make the one base garment look different and increase the number of places it can be worn.
  - With the pictures, provide a short description of the outfits created around the chosen garment.
  - Provide a breakdown of the cost of the base garment and anything NEWLY purchased that you put with this garment. Complete the Cost Per Wear Form.
- Bring the completed notebook and the ONE BASE garment to the judging. The construction judge will evaluate this class.

### **Clothing Educational Exhibit**

- Share with others what you have learned in the clothing and textiles project.
- Exhibit may be a poster, notebook or display showing and describing something learned, a project activity done, a community service program. Read Junior Division rules.
- Follow copyright laws as explained in the general rules as you are preparing your exhibit.
- See suggestions in the “Going Further” section of the Clothing Notebook Lesson Plan for ideas.
- The exhibitor is encouraged to attach an index card, no larger than 3”x5” with the entry to give the judge any information the judge needs to know. Using a larger card will result in the exhibit being lowered one ribbon placing.
- Explain if the exhibit contains any recycled materials.
- It should relate to things done in the project in which you are enrolled. State your project on your entry.
- Educational Exhibit Classes. Share with others what you learned in this project. Exhibits may be in the form of a poster, notebook or display. Follow copyright laws as explained in the General Rules as you are preparing your exhibit. Take care to select durable materials that will withstand State Fair conditions. No card table displays are allowed. If the exhibit is a poster, it must not be larger than 22”x28”. Poster must be prepared to hang on pegboard hooks. Attach a wood lathe/board 1 ½” wide and as long as the poster on back for weight. If the exhibit is a display, maximum size is not to exceed a standard-fold display commercial 3’x4’ tri-fold display board. Your name, age, club, address and class number should be on the back of the educational exhibits.

1584. Exhibit by 7-9 year olds

1585. Exhibit by 10-13 year olds

1586. Exhibit by – 14 and over

### **CLOVERBUD CORNER**

(5-6 year old 4-H members)

All Cloverbuds are encouraged to bring their projects/items to the Cloverbud Corner in the 4-H Building. Each member may enter two exhibits. All exhibits should have name, club, and age on them. No pre-registration is required. All exhibits will receive a Cloverbud participation ribbon.

### **DAIRY CATTLE**

Judging Date: Saturday, July 21<sup>st</sup> @ 11: am immediately following Beef Show

Read Rules for 4-H & FFA General Rules

- Each exhibitor is limited to two entries in any particular class.
- Livestock exhibitors must be available to exhibit animals. If exhibitor has two entries in the same class, the member may ask another Neosho county member to assist, providing it meets the approval of the superintendent of the department.
- In classes with only one exhibitor, the judge reserves the right to place the animal in the ribbon group of their choice.
- All livestock exhibitors will have an entry card with them upon entering the show arena.
- Livestock will be placed: Purple – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Blue – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Red – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, etc.
- The following classes will be provided for each of these dairy breeds: Holstein, Jersey, Guernsey, Ayrshire, Milking Shorthorn, Brown Swiss, and Crossbred.
- Dairy exhibitors will follow the dress code as outlined under 4-H junior division rules.

### **Calf or Heifer**

- You must own, feed and manage one or more high grade or purebred dairy calves or heifers, for breeding purposes.
1415. Junior Heifer Calf, born on or after March 1, 2018.
1416. Senior Heifer Calf, born between September 1, 2017 and February 28, 2018.
1417. Junior Yearling Heifer born March 1, 2017 – August 31, 2017.
1418. Senior Yearling Heifer born September 1, 2016 – February 28, 2015.
1419. Cow, 2 years, born September 1, 2015 – August 31, 2016.
1420. Cow, 3 years, born September 1, 2014 – August 31, 2015.
1421. Cow, 4 years old and over, born prior to August 31, 2014.

### **Cow & Calf**

- You must own, feed, and manage one or more dairy cows through the gestation, calving and production period.
  - Keep production records on each current lactation.
  - Dairy production records start October 1, end September 30 of each year.
  - To exhibit, members must have registration or transfer papers in their name by July 1<sup>st</sup>.
1422. Daughter & Dam

### **Dairy Showmanship**

- All exhibitors of dairy classes are eligible to enter.
  - Age is determined as of January 1<sup>st</sup> of the present year.
1423. Senior Division, 14 and over
1424. Intermediate Division, 10-13 years
1425. Junior Division, 7-9 years

### **DOGS**

Judging Date: Saturday, July 21 at 9:00 a.m.

Read Rules for [4-H & FFA General Rules](#)

Open to all 4-H members enrolled in dog project.

- Once a 4-H member scores 170 points or greater with the same dog under two different judges, member must advance to the next obedience level at the start of the next 4-H year.
- At any time the leader, parent and member agree the 4-H member and dog are ready to move to the next level, they may, but once the move is made, they cannot regress back to a lower level.
- All dogs exhibited on leash, except in novice and graduate novice.
- All dogs must remain on leash, when not being shown.
- Dogs are not allowed to run at large or accompany owner anywhere on fairgrounds at any time.
- Owners should collect all dog waste in plastic bags and put in trash.
- Rules and regulations as outlines in Kansas 4-H Dog Guidelines (S-46, NEW Feb. 2000) will be enforced. In addition, show participants will be required to adhere to the following rules:
  1. State 4-H Dog Show Immunization Record (MG-34 Revised) is required for all dogs at the fairgrounds.
  2. The fully completed forms, available at the Extension office, must be presented to the superintendent on the day of the show.
  3. Required vaccinations include: distemper, hepatitis, parvovirus, parainfluenza and rabies.
  4. Recommended vaccinations include: Leptospirosis, corona virus and bordetella.
  5. Rabies vaccination must be administered by a graduate, licensed, accredited veterinarian.
  6. Vaccinations must be current and contain a veterinarian stamp.
  7. Abuse of dogs on grounds, or in the ring, will result in disqualification.
  8. Any dog in season will not be allowed to show in either showmanship or obedience.
  9. Well-fitting collar of leather or fabric is to be used for obedience.
  10. Any dog fouling the ring will receive a white ribbon.
  11. Baiting dogs is not allowed.
- Member must care for and train one or more dogs.
- Dogs may belong to member or member's family.
- Dog may be male or female, spayed, registered or unregistered, and may be of any breed or combination of breeds.

### **Obedience**

- Entries will be judged according to Kansas State Fair competition guidelines.
  - A score of 170 points or greater is a qualified score, with at least 50% in each exercise.
  - In case of tie, a run-off on the heel free exercise will be held with one team performing at a time.
  - Ribbon groups will be on points: Purple – 190-200; Blue – 170-189.5; Red – 150-169.5; White – 149.5 or less.
  - To qualify for state competition you must show in novice or graduate novice class and receive a blue ribbon or better and be 10 years of age as of January 1<sup>st</sup> of the current year.
  - If trainer has three qualifying scores using the same dog, they must move to the next level.
1539. Beginning Obedience – Junior only.
1540. Sub-Novice – Beginners class of dog project has to start in this group. Someone with a new dog or 2<sup>nd</sup> dog must start.
1541. Pre-Novice – All exercises on leas.
1542. Novice – 1<sup>st</sup> year and above.
1543. Graduate Novice – 2<sup>nd</sup> year & above – all members and dogs who have qualified in novice.
1544. Open – All members and dogs who have qualified in graduate novice.
1545. Utility – All exercises off leash.

## Dog Showmanship

- Entries will be judged on the fitting of the dog, according to Kansas State Fair competition guidelines: clean and well brushed, tone and condition of coat, healthy appearance of teeth, toenails and eyes.
- Handler will be judged on alertness, grace, ease and coordination with dog and reaction of dog to handler with straight and even gait and movement of dog.
- Showmanship is based on 100 points: Purple – 95-100; Blue – 90-94.5; Red – 80-89.5; White – 79.5 or less.
- To qualify for state competition in showmanship you must receive a blue ribbon or better and be 10 years of age as of January 1<sup>st</sup> of the current year.
- Showmanship gives each 4-H'er the opportunity to show off his/hers dog and himself/herself to the best of their ability.
- The judge will examine each dog individually for grooming.
- Each 4-H'er and his dog will have the opportunity to do a patter.
- First place winners of each age division compete for champion showmanship.

1546. Senior Division – 14 and over

1547. Intermediate Division – 10-13 years

1548. Junior Division – 7-9 years

## Dog Agility

- Members and dogs qualifying with 170 points or more.
- Dogs must be at least 12 months old.
- Dog: Small – under 15" at the withers; Medium – 15-20" at the withers; Large – more than 20" at the withers.
- Ribbon groups will be on points: Purple – 190-200; Blue – 170-189.5; Red – 150-169.5; White – 149.5 or less.

1550. Pre-agility – on leash

1551. Agility – off leash

## ENERGY MANAGEMENT

Read Rules for **4-H & FFA General Rules**

- Open only to those enrolled in the electric/electronics/small engine/power of wind projects.
- Each exhibitor may enter up to two articles in this division, but only one per class.
- Articles may have been used, but should be cleaned before exhibiting.
- A sheet of operating instructions must be furnished for any exhibit not self-explanatory.
- Exhibit must be operable. If battery power is required, batteries must be furnished.
- Any project with a complexity of size or electronics must have: a) instructions for assembly and use, b) equipment available for actual testing of the exhibit.
- No hand-dipped solder may be used on exhibits.
- Judging will be based on safety, workmanship, approved materials, performance and design.
- For State Fair: an entry form with requested information about the exhibit must be securely attached to the exhibit.

1901. AC Electric Projects. Electric projects with a 110 or 120 V alternating current (AC) power source. Some projects examples are household wiring demonstrations, small appliances extension cords, trouble lights, indoor or outdoor wiring boards, or shop lights. Projects may be a restoration or original construction. The project must be operational and meet minimum safety standards. AC projects must be 110/120 V exhibits are allowed, and must be constructed such that the judges have wiring access to examine the quality and safety of the workmanship.

1902. DC Electrical Projects. Electric projects with a battery or direct current power source. This class includes electric kits or original projects. This class also includes demonstration DC powered projects. Examples include: wiring two or three way switches, difference between series/parallel lighting circuits or wiring doorbell switches. All DC electric projects must work with batteries supplied by the 4-H'er. Projects must be constructed such that judges have access to examine the quality of the wiring workmanship.

1903. Electronic Projects. Electronic projects with a battery or direct current power source. This class includes electronic kits or original projects. Examples include radios, telephones, toy robots, light meters, security systems, etc. May be constructed using printed circuit board, wire wrap, or breadboard techniques. Include instruction/assembly manual from a kit. Include plans if an original project. Projects must be constructed such that the judges have access to examine the quality of the wiring workmanship.

1904. 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, 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'x4'.

## SMALL ENGINES (Energy Management)

All exhibits should involve engines smaller than 20 horsepower for classes 4610-4612

Displays are limited to 4' wide and 4' deep – both upright and floor displays

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'x4'.

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'x4'.

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. Maximum tri-fold size is 3'x4'. Engine should contain no fuel in tank or carburetor.

**ALTERNATIVE ENERGY** (A form of energy derived from a natural source such as sun, geothermal, wind, tides or waves)

All exhibits in this division are limited in size to standard, tri-fold, display boards (36"x48") and items may not extend beyond 12" from the back board. All displays must be self-standing.

4620. EDUCATIONAL DISPLAY – Create an exhibit that addresses a focused topic related to wind power as 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 wind power as a renewable energy source. Include hypothesis, background research, variables, a control, data, findings, conclusions and recommendations for future studies.

**ENTOMOLOGY**

A 4-H member enrolled in the Entomology Project may exhibit in the ENTOMOLOGY COLLECTION, ENTOMOLOGY NOTEBOOK and/or EDUCATIONAL DISPLAY categories. Within each category, there are classes in Beginning, Intermediate or Advanced phases in which they enroll. An Introductory Entomology Collection Class exhibit is encouraged for county fairs (first year members only), but these may not be exhibited at the State fair. See class descriptions within categories for requirements. We are transitioning from the taxonomy as listed in the "Insects in Kansas" book to the taxonomy listed on the "Insects in Kansas Book: 2016 Revised Taxonomy" which follows [www.bugguide.net](http://www.bugguide.net)

**COLLECTION CLASSES**

*General Guidelines*

1. All entries should be submitted in an 18 x 24 x 3.5 inch wooden display box with a clear plastic top (such as plexiglass). Boxes can be handmade or purchased as long as they are of the correct size.
2. During the transition, Orders & Family names should follow the taxonomy either
  - a) As printed in "Insects in Kansas" book or
  - b) As printed on the "Insects in Kansas Book: 2016 Revised Taxonomy", which follows [www.bugguide.net](http://www.bugguide.net)Project members are encouraged to progress towards option b by 2019 or as revised "Insects in Kansas" book is available.
3. Each exhibitor is required to identify each box with two identification labels bearing Exhibitor's name, county or district, the collection class 4-H'er is enrolled in and statement of taxonomy used:
  - a) "Insects in Kansas" book or
  - b) "Insects in Kansas Book: 2016 Revised Taxonomy", which follows [www.bugguide.net](http://www.bugguide.net)One label goes in the upper left corner of the box (inside) and the other on the lower right corner of the box (outside). Arrange specimens in the box so the box can be displayed lengthwise.
4. The number of orders, specimens (and families where required) must be included on both of the exhibitor's box identification labels. Only adult specimens can be used in collection boxes; however one female and one male of a species correctly identified can be displayed.
5. Arrangement of specimens: The preferred method is to arrange the insects in groups or rows parallel to the short sides of the box. Arrangements that run lengthwise of the box are frequently downgraded in judging. Specimens are to be arranged by Order in the box, then Family where required. The sequence arrangement of the Orders in the box will be left up to the member. It is suggested to put the Lepidoptera and Coleoptera in the center of the collection (for Intermediate and Advanced Classes to put these two orders in a box). Then work the other orders around them.
6. For each collection class, two labels will be centered on the pin beneath each specimen. First (closest to the specimen) is the common name label and the second label should include date/locality. Full county name and state abbreviation on the second label are encouraged for 2016 and will be required by 2019. Collector's name on the date/locality label is optional.
7. The specimens should be collected by the exhibitor and should focus on Kansas insects. Insects may be collected from one county into bordering states and labeled accordingly. Other specimens from the United States may be included as long as they are properly labeled and placed in a separate section of the box labeled "Out of State Insects". These specimens will not be included in the count for judging/scoring. Emphasis in judging will be placed on the overall variety of insects represented in the collection, accuracy of identification, skill and technique acquired in mounting of specimens, and overall arrangement and appearance of the collection.
8. Purchased insects are not to be exhibited in collections, but they may be used in educational displays.
9. Specimens of soft bodied insects such as aphids, lice, termites, etc. should be exhibited in alcohol filled vials; however, the use of alcohol filled vials should be limited to only those specimens that lose their shape when pinned, since the vials pose a significant hazard to the rest of the collection if they become loose in transit.

**4900 BEGINNING I ENTOMOLOGY COLLECTION**

Display in one standard box a minimum of 50 and maximum of 125 species representing at least 7 orders. Follow the general guidelines listed for Collections. Members can exhibit in this class a maximum of 3 years, or until they receive a purple ribbon at the Kansas State Fair, whichever comes first.

**4901 BEGINNING II ENTOMOLOGY COLLECTION**

Display in one standard box a minimum of 75 and maximum of 150 species representing at least 9 orders. Follow the general guidelines listed for Collections. Members can exhibit in this class a maximum of 3 years, or until they receive a purple ribbon at the Kansas State Fair, whichever comes first.

**4903 INTERMEDIATE ENTOMOLOGY COLLECTION**

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

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

Members can exhibit in this class a maximum of 3 years. A 4-H'er may move up if they receive a purple ribbon.

**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 is required for all insects belonging to the six basic orders as outlined under the Intermediate phase. Only families in the above six orders will be counted for judging. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained. On a piece of paper list what you did to improve your collection during the current year. Examples: what insects did you add or replace; what orders and/or families you added; what Leadership you provided in this project; and/or what insects you have studied. Attach paper to the back of one of the display boxes. Members may continue to exhibit in this class at the Kansas State Fair for an unrestricted number of years as long as they remain eligible for 4-H membership.

## ENTOMOLOGY NOTEBOOK CLASSES

1. Individual entries are to be placed for display in a three-ring notebook for competition.
  2. During the transition, Orders & Family names should follow the taxonomy either
    - a) as printed in "Insects in Kansas" book or
    - b) as printed on the "Insects in Kansas Book: 2016 Revised Taxonomy", which follows [www.bugguide.net](http://www.bugguide.net)
- Project members are encouraged to progress towards option b by 2019 or as revised "Insects in Kansas" book is available.
3. 4-Hers who have been previously enrolled in or are currently enrolled in the other phases of the Entomology project need to start with the Beginning Phase of Entomology Notebooks, not the Introductory phase.
  4. Each exhibitor is required to identify the notebook by placing a Title Page in the front of the notebook bearing the exhibitor's name, county or district and class 4-H'er is enrolled in and statement of taxonomy used:
    - a) "Insects in Kansas" book or
    - b) "Insects in Kansas Book: 2016 Revised Taxonomy", 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.

5. Specimen pages should be grouped according to order and should include one page per species. If more than one insect is in the photo, an arrow to indicate identified insect should be used.
6. Date, common name, full county name and state abbreviation should be included for each species. Collector's name on the specimen page is optional.
7. Specimen pages should have two different views of the insect if possible. If pictures are taken on different dates/localities, include information for both.
8. A statement describing the habitat where found/host plant may be included and is encouraged and will be worth a bonus 10 points total, not per page. For Intermediate and Advanced notebooks, this is strongly encouraged.
9. A divider page is to be placed in front of each order of insects with the order name printed on the tab for the page as well on the front of the divider page.
10. For the Intermediate and Advanced classes, insects are also to be grouped by family behind each order divider.
11. If the exhibitor has been in the same class for more than one year, a separate sheet of paper needs to be added stating how many years the exhibitor has been in this class of the project and what the exhibitor did this year to improve their notebook. Place the paper just behind the Title Page in the front of the notebook.
12. A special project must be completed each year and included in the notebook. See project guideline materials for specifications.

### 4907 INTRODUCTORY ENTOMOLOGY NOTEBOOK

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

### 4908 BEGINNING ENTOMOLOGY NOTEBOOK

Display a minimum of 20 and a maximum of 60 insect species representing at least 7 different orders. Follow the general guidelines listed for all Notebooks, including the Special project. Members can exhibit in this class a maximum of 3 years or until they receive a purple ribbon at the Kansas State Fair, whichever comes first.

### 4909 INTERMEDIATE ENTOMOLOGY NOTEBOOK

Display a minimum of 60 and a maximum of 100 species representing at least 9 orders. Follow the general guidelines listed for Notebooks, including the Special project. In addition, family identification is required for all insects in any two of the following six orders: (Only two will be counted for judging)

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

Members can exhibit in this class a maximum of 3 years. A 4-H'er may move up if they receive a purple ribbon.

### 4910 ADVANCED ENTOMOLOGY NOTEBOOK

Display a minimum of 100 and a maximum of 200 species representing at least 12 orders. Follow the general rules listed for Notebooks, including the Special project. Follow the general guidelines listed for Notebooks. Family identification is required for all insects belonging to the six basic orders as outlined under the Intermediate phase. Only families in the above six orders will be counted for judging. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained. Members may continue to exhibit in this class for an unrestricted number of years as long as they remain eligible for 4-H membership.

## ENTOMOLOGY EDUCATIONAL DISPLAY CLASSES

### General Guidelines

1. All entries should be submitted in an 18 x 24 x 3.5 inch wooden display box with a clear plastic top (such as plexiglass). Boxes can be handmade or purchased as long as they are of the correct size. Arrange display in the box so the box can be displayed lengthwise.
2. Each exhibitor is required to identify each box by placing two identification labels bearing exhibitor's name, county or district and the class in the box. One label goes in the upper left corner of the box (inside) and the other on the lower right corner of the box (outside). Information on numbers and kinds of insects is not needed for educational exhibits.
3. Displays may consist of specialized groups of insects or their close relatives, or relate to any aspect of their behavior, biology or ecology.
4. Displays should be presented in a clear, concise, and interesting manner.
5. Displays should include only work performed during the current year.
6. Title of the exhibit should be indicated inside the box.
7. The purpose of the project is to learn more about the importance, life cycles, biology, ecology, diversity, etc. of insects and related arthropods. Subject matter can be as varied as the animals themselves.
8. Creativity is encouraged!

### 4902 BEGINNING EDUCATIONAL DISPLAY

A 4-Her may enroll in this class if enrolled in Beginning I or II Collection/Notebook classes or if age 9-12. Follow the general rules listed for the Educational displays.

### 4904 INTERMEDIATE EDUCATIONAL DISPLAY

A 4-Her may enroll in this class if enrolled in Intermediate Collection/Notebook classes or if age 11-14. Follow the general rules listed for the Educational displays.

### 4906 ADVANCED EDUCATIONAL DISPLAY

A 4-Her may enroll in this class if enrolled in Advanced Collection classes or if age 13 or older. Follow the general rules listed for the Educational displays.



## EXPLORING 4-H

Read Rules for **4-H & FFA General Rules**

A poster, notebook or display showing and describing something learned IN 4-H or a project activity done, a community service program, etc.

2066. Exploring 4-H

## FIBER ARTS

Read Rules for 4-H and FFA General Rules

Judging Tuesday, July 17<sup>th</sup>, 5:00 pm – 7:00 pm Neosho County Courthouse Basement

1. Identification Label: Type or print on a 3"x2-1/2" piece of cloth: class number, county or district, and exhibitors name, sew or safety-pin this ID label on the lower left corner of flat article
  2. All articles must be in clear plastic bags when entered, if article need hung, it must have appropriate hanger, rod, wire or other mechanism attached in order to be properly displayed.
  3. The exhibitor should attach an index card, no larger than 3"x5", with the entry form to give the judge any information which the exhibitor thinks helpful to the judge. Explain whether you created the fabric for a knitted article by hand or machine. Also if the exhibit contains any recycled materials, or is made of at least 90% wool.
  4. There are no age-specific classes in fiber arts. The exhibitor's age and years in the project will be considered by judges.
  5. State Fair Award: The Kansas Sheep & Wool Auxiliary will award \$25.00 to the exhibitor of the top purple in a knitting and crocheting class. The article must be made of at least 90% wool. Attach a statement to the article indicating the fiber content, and specifically, that the material is at least 90% wool and is to be considered for the Wool Award.
  6. A member may enter two exhibits in each class. All articles/garments must be finished for use.
4112. Crochet and Crochet An Article (including felted items & hand or machine)
4113. Needle Arts, an article created by hand using the following techniques: embroidery and cross-stitch, needle point, candle wicking, crewel, lace work, applique
4114. Patchwork or Quilting
4115. Other: Rug Making, Spinning, Weaving, Ethnic Arts, Macramé
4120. Educational Notebook, should include:
- A narrative with description of project, technique, budget, supplies, etc. May include samples, photos. Not a collection of brochures, patterns, web pages, etc.

## FOODS & NUTRITION

Conference Judging Date: **Monday, July 16<sup>th</sup> @ 2:00 p.m. with decorated cakes first at the Erie Courthouse, Erie**

Read Rules for **4-H & FFA General Rules**

1. Exhibitors must be in the Food and Nutrition project.
  2. All exhibits require a recipe. Source of recipe must appear on card. Exhibit will be dropped one ribbon placing without recipe.
  3. Recipes in the 4-H foods project are only guidelines. Recipes from other sources may be used. Commercial mixes are permitted. No alcohol ingredients may be used. Canning jars may not be used for baking.
  4. If exhibiting cookies, muffins, rolls, cupcakes, candies, or other small items, bring three on a 6" paper plate. Larger food exhibits such as bread and cakes should be removed from pan and displayed on covered cardboard cut to fit the size of the product. Fruit pies can remain in pie pan. Place all exhibits in plastic bags.
  5. **FOOD GIFT BASKET:**  
Must contain at least three different non-perishable food items prepared for human consumption and made by the 4-H'er, in a suitable container. Maximum size of 18"x18"x18". Prepared food items must have recipes attached with the entry. Additional homemade food items beyond the 3 minimum or purchased items may also be included in the gift basket. No alcoholic beverages will be accepted. In 50 words or less, on a 3x5" index card, answer these questions: a) what is the intended use, b) what food safety precautions were taken during and after preparation. This entry will count as a non-perishable food product for State Fair. Food Gift Package and/or Specialty Food Product must be taken to the fairgrounds and on display throughout the county fair.
- Modified Non-Perishable Product must be modified from original recipe to nutritionally enhance the food product. Attach one – 8 ½ x 11 inch page (front and back) that concludes Original Recipe, Modified Recipe, and Narrative to describe modifications made, why modifications were made and lessons learned such as nutritive value, and possible changes in appearance, doneness, aroma, flavor, tenderness and/or texture. Suggested resources: Altering Recipes for Better Health Purdue University: <http://www.extension.purdue.edu/extmedia/cfs/cfs-157-w.pdf>. Altering Recipes for Good Health Texas A&M University: [http://fcs.tamu.edu/food\\_and\\_nutrition/pdf/altering-recipes.pdf](http://fcs.tamu.edu/food_and_nutrition/pdf/altering-recipes.pdf)
  - Recipe Collection:  
A collection of your favorite recipes in a recipe box or notebook.  
Include your name on each recipe card, as well as the current year, so when new recipes are added you will know the current year.  
Your name, club, address, county or district and class number and name must be clearly marked on all exhibits.

## Educational Exhibits – (bring to food judging)

- Exhibit may be in the form of a poster, notebook, or display showing and describing something learned, a project activity done, a food-nutrition community service program, etc.
  - Should relate to things done in the project in which you are enrolled.
  - State your project on your entry.
  - Follow copyright laws as you are preparing your exhibit.
  - Your name, club, address, county, and class number and name must be clearly marked on all exhibits.
1689. Educational classes: Exhibits may be in the form of a poster, notebook or display. Follow copyright laws as explained in the General Rules as you are preparing your exhibit. Take care to select materials that will withstand Fair conditions. No card table displays are allowed. If the exhibit is a poster, it must not be larger than 22"x28". Displays are not to exceed a standard commercial 3'x4' tri-fold display board. Name and county or district must be clearly marked on educational exhibits. The educational exhibit evaluation form will be provided at judging time. NOTE: S collection of your favorite recipes in a recipe box or notebook does not constitute an educational exhibit.

#### For State Fair:

- For food safety purposes, any food with custard and cream cheese type fillings and frostings, flavored oils, 'canned' bread or bread or cakes in a jar, or food requiring refrigeration will not be accepted at the State Fair.
- Refer to K-State Research and Extension publication 4-H 712, Food Safety Recommendations for Acceptable Fair Exhibits, for more information to help make informed, safe food exhibit decisions.
- Decorated special event cakes will not be accepted for exhibit at the Kansas State Fair.

#### Junior Division (age 7-9 years old) – food entry may be a mix only in this age division

- 1615. Non-Perishable Foods (4 entries allowed)
- 1616. Educational Exhibit
- 1617. Food Gift Basket
- 1618. Modified Non-Perishable
- 1619. Food Flop
- 1620. Decorated Cake (must be a cake, not a decorated box)
- 1621. Recipe Collection (minimum of 10 recipes in a box or book)

#### Intermediate Division (age 10-13 years old)

- 1626. Non-Perishable Foods (4 entries allowed)
- 1627. Educational Exhibit
- 1628. Food Gift Basket
- 1629. Modified Non-Perishable
- 1630. Food Flop
- 1631. Decorated Cake (must be a cake, not a decorated box)
- 1632. Recipe Collection (minimum of 10 recipes in a box or book)

#### Senior Division (age 14 years and over)

- 1637. Non-Perishable Foods (4 entries allowed)
- 1638. Educational Exhibits
- 1639. Food Gift Basket
- 1640. Modified Non-Perishable
- 1641. Food Flop
- 1642. Decorated Cake (must be a cake, not a decorated box)
- 1643. Recipe Collection (minimum of 10 recipes)



Will provide an award to the top three entries in the bread division.  
There will be a separate award for the top entry in the bread machine category.

#### FOOD PRESERVATION

**Judging Date: Monday, July 16<sup>th</sup>**

Read Rules for **4-H & FFA Junior Division Department Rules**

1. Exhibitors must be enrolled in the Food and Nutrition project.
  2. All exhibits must have been preserved in the current 4-H year.
  3. Each exhibit must have the complete recipe and instructions attached with the entry card. Recipe must include recipe source, date of publication and altitude of residence.
  4. Recommended method of processing must be used. Pickles and sweet spreads must be water bath processed and low acid products must be pressure processed. Open kettle processed food or microwave oven canned foods will not be accepted.
  5. Entries must be sealed in non-decorated, clean standard canning jars with matching brand two-piece lids. Sweet spreads must be in ½ pint or pint jar. All other products must be in pint or quart jars.
  6. Dried products must include the recipe. All meat jerky must be cooked to an internal temperature of 160 degrees F before or after drying. Jerky not heated properly will not be judged.
  7. Label: Each jar exhibited should be labeled with the following: class number, product, name of exhibitor, address, club, canning method, processing time, and amount of pressure. These labels should be placed one – inch from base of the plain face of the jar.
  8. All preserved foods will be kept for display.
- 1700. Sweet Spreads, (Fruit and/or Vegetables), Syrups
  - 1701. Fruits, Juices, Fruit mixtures (Salsa, Pie Filling, etc.)
  - 1702. Tomato/Tomato Products, (Tomato Juice and Tomato Salsas)
  - 1703. Low-Acid Vegetables (green beans, corn, or vegetable mixtures, etc.)
  - 1704. Pickles (Fruit or Vegetables) Fermented Foods and Relishes or Chutney.
  - 1705. Meats
  - 1706. Dried Foods – One small jar.



2018 Award Announcement  
BALL® "BRING OUT YOUR BEST"  
YOUTH FOOD PRESERVATION AWARDS  
Presented by:  
BALL® & KERR® HOME CANNING

To promote the art of home canning, and to honor youths who excel at the art of home canning, Ball® & Kerr® Home Canning is offering First Place Youth Award categories. Judged will select the best entry submitted by a youth in Fruit, Vegetable, Pickle and Soft Spread categories canned in Ball® Jars

sealed with Ball Bands with Dome® Lids or Ball® Collection Elite™ Decorative Bands with Dome® Lids, or canned in Kerr® jars sealed with Kerr® Bands Self-Sealing® Lids or Ball® Collection Elite™ Decorative Bands with Dome® Lids. In addition, soft spreads entries will be limited to those prepared using one of the Ball® Fruit Jell® Pectins: Regular; No Sugar Needed; Liquid; with pectin proof of purchase provided at the time of entry. The best entry from each category will receive the following: Two (2) Five Dollar Coupons (\$5.00) for Ball® or Kerr® Home Canning Products.

## FORESTRY

Read Rules for [4-H & FFA General Rules](#)

1. All leaf exhibits are to be mounted on 8½"x11" heavy stock paper and placed in loose leaf binders. Magnetic or adhesive filler sheets for photographic prints are recommended. Twigs and fruit collections may be exhibited in whatever manner you choose (maximum exhibit size 2'x3').
2. Name, club, age and year in project should be on front cover or in prominent location.
3. Leaves should be identified with an appropriate label located near the leaf on the same page. These labels should include:
  - Proper common name as listed in the 4-H bulletin 334, "List of Native Kansas Fores.
  - Location (city and/or county) where collected and
  - Date collected (day-month-year)
4. Divide specimens into the following two (2) sections: native Kansas trees, and non-native trees.
5. New specimens are those specimens collected during the current 4-H year.
6. Group specimen according to the years collected (ex: 'old previous year' and 'new').
7. If you retrieve information for your forestry exhibit, you must include reference citation to the source.
8. Variations of varieties do not count as different specimens.
9. Exhibit only in phase(s) enrolled. Exhibit may be in either A. Class or B Class; but not in both.
10. All work must show originality. Leaf collections and displays should not closely resemble work done by others in the same club.

### Division A – Intermediate Forester

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

1975. Beginning (choose A or B)  
A. Exhibit a minimum of on 10 different leaves from native Kansas tress collected within the year. Exhibit can include non-native leaves in addition to the Required number of leaf specimens collected from native Kansas trees.  
B. Exhibit a minimum of 5 native Kansas trees show leaf, twig and fruit from each species collected.
1976. Intermediate (choose either A or B)  
A. Exhibit a minimum of 20 different leaves (including 10 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.  
B. Exhibit a minimum of 10 native Kansas trees showing leaf, twig, and fruit from each species collected. The exhibit must include 5 new leaf, twig and fruit specimens.
1977. Senior (choose either A or B)  
A. Exhibit a minimum of 30 different leaves (including 10 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf species collected from native Kansas trees.  
B. Exhibit a minimum of 15 native Kansas trees showing leaf, twig and fruit from each species collected. This exhibit must include 5 new leaf, twig, and fruit specimens.
1978. Advanced (choose either A or B)  
A. Exhibit a minimum of 40 different leaves (including 20 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.  
B. Exhibit a minimum of 20 native Kansas trees showing leaf, twig, and fruit from each species collected. This exhibit must include 10 new leaf, twig, and Fruit specimens.

How a Tree Grows

1979. Display: Entry may include a project notebook with 10 or more seeds collected with pictures showing a germination study or a mounting of a thin section of wood cut from the end of a log or top of stump labeled with information such as kind of wood and age of tree when cut or exhibits an illustration of how a tree grows.

Tree Appreciation

1980. Display: Entry may include a research or reporting project notebook with no more than 10 pages based on exhibitor's selected tree. This notebook may Include sketches, drawings, pictures, a story, or any other things which will help tell about the tree you have selected.

Division B – Senior Forester

Growing and Protecting Trees

1981. Display: Entry requires project notebook telling about project and pictures before, during and after planting seedlings.

Tree Culture

1982. Display: Entry requires project notebook showing your project work and includes pictures of before, during and after wood lot improvement.

How Forests Serves Us

1983. Display: Entry may include collected wood samples (all or partial) and 500 word essay. Wood sample display to be mounted on poster board or any stiff material no larger than 2'wide x 3' high. Essay should be displayed in a covered binder.

Educational/Creative Exhibit

1984. Display: Entry must be directly related to tree identification of Forestry. Type of exhibit is open (notebook, poster, collection box, etc.) Given a maximum size of 2'x3'. Care should be taken to use durable materials that will withstand Fair conditions. This is a good class to exhibit an unusual collection.

## GEOLOGY

### Read Rules for 4-H & FFA General Rules

1. The standard size exhibit box should be 18"x24"x3½". Plexiglas covers are required. Boxes with glass covers will not be accepted. If a box has a sliding Plexiglas cover, it must be removable for the top. Screws, locks or other devices that would prevent judges from removing cover should not be used. All specimens are to be arranged across the narrow (18") dimension of the exhibit box, making the exhibit exactly 18" across the top and 24" deep exactly.
  2. Each exhibitor is required to identify each display box by placing an identification label bearing name, county and number of species in the upper left hand corner of the Plexiglas cover (inside – use clear double-sided tape to adhere gummed labels) and by attaching a label with the same information on the lower right corner of the box (outside).
  3. Exhibitor may enter in both geology and lapidary classes. Exhibitor may show in only one of the first four geology classes. Exhibitor may show in the Special Exhibit Class, Mineralogy and in one or more of the lapidary classes.
  4. Specimens should be labeled with the number of the specimen, date collected, specimen name or description, and locality (county) where collected. Rocks must be identified by their proper name and type. Fossils must be identified to the Phylum, Class, and Genus levels if possible.
  5. For classes (1990, 1991, 1992, and 1993) specimens should be mounted in the box by the proper groups – rock, minerals, and fossils. Genus name is to begin with a capital letter. Species name is all lower case. Genus and species names must either be italicized or underlined, not both. The words "phylum, class, genus" on labels are to be spelled out, not abbreviated.
  6. For classes (1990, 1991, 1992, and 1993) all specimens must be collected from locations in Kansas. Out-of-state specimens will not count in the minimum number for the class nor will they be considered in the judging.
1990. Display, 1<sup>st</sup> year – Limited to one exhibit box of 15 different rocks, minerals or fossils collected during the current year. Only those exhibiting at county fair for the first time may enter this class.
1991. Display, 1<sup>st</sup> or 2<sup>nd</sup> year – Limited to one exhibit box of 30 different rocks, minerals or fossils, at least 5 each. Fifteen must be collected during the 4-H year.
1992. Display, 3<sup>rd</sup> or 4<sup>th</sup> year – Exhibit limited to two boxes of 45 rocks, mineral and fossils, at least 5 each. Fifteen must be collected during the 4-H year. Identify the rocks as igneous, metamorphic or sedimentary. These rock types must be spelled out on labels or have a legible key.
1993. Display, 5<sup>th</sup> year & over – Exhibit limited to two boxes of at least 60 rocks, minerals or fossils, at least 5 each. Fifteen must be collected during the 4-H year. Exhibit must include approximately 15 specimens of current year's work igneous, metamorphic or sedimentary. These rock types must be spelled on labels or have a legible key.
1994. Geology Educational Exhibit – Exhibit relating to everyday living; or to a mineral test, a rock formation, geological history, species of fossil, forms of one mineral, a variation of one kind of rock, archaeological artifacts, or Indian artifacts. Digital formats are accepted. Please make arrangements for the judge to view your exhibit and have a hard copy for display. Exhibit limited to 4 feet of table space. Care should be taken to use durable materials that will withstand Fair conditions.
1989. 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 (i.e. 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 if known.
- Lapidary 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 (country, state or county; county required for Kansas specimens)
  - Purchased or self-collected
  - Date lapidary treatment began
  - Date lapidary treatment completed (Treatment completed after the State Fair is considered a new year specimen)
1995. Lapidary – Display at least 5 varieties of polished (tumbled) specimens and 5 varieties of unpolished specimens that have not yet received lapidary treatment. These do not have to be an example of "before and after", nor do they have to be self-collected. Locales must be identified. Only those exhibiting lapidary for the first time may exhibit in this class.
1996. Lapidary – Display before and after examples of at least 3 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each. There is no requirement that the 4-H'er collect any of these. Locales must be identified. Lapidary work should be done during the current year.
1997. Display before-and-after examples of at least 6 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each. At least 2 varieties should be collected from the native site by the 4-H'er, at least one that comes from Kansas. Locales must be identified. Lapidary work on at least three varieties should be done during the current 4-H year.
1998. Display before-and-after examples of at least 9 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each. At least three varieties should be done during the current 4-H year.
1999. Exhibit at least 6 specimens that have not previously been exhibited, which have received lapidary treatment. Lapidary treatment may consist of polishing, and end, face, or flat lapping. Specimens must represent at least 3 different varieties and include at least three cabochons of any size or shape, only one of which may be free-formed. A cabochon is a style of cutting in which the top of the stone forms a domed or curved convex surface. Three of the specimens must be mounted into jewelry findings. Special lapidary exhibits should be entered in class 1994. Please note that each member is limited to one entry in this class.

## GOATS, DAIRY

**Judging Date: Saturday, July 21 at 11:00 am Immediately following Beef Show**

Read Rules for [4-H & FFA General Rules](#)

1. Each exhibitor is limited to not more than two entries in any particular class.
2. Livestock exhibitors must be on hand to exhibit animals. In case exhibitor has two in the same class, the 4-H or FFA member may ask another Neosho County member to assist him/her, provided it meets with the approval of the superintendent of the department.
3. In classes where there is only one exhibitor, the judge reserves the right to place the animal in the ribbon group they see fit.
4. All livestock exhibitors will have an entry card with them upon entering the show arena.
5. Animals will be placed: Purple – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Blue – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Red – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, etc.
6. The goat's age is determined as of the day of judging.
7. For dairy goats only does may show and all breeds show together.

You must own, feed and manage one or more purebred of high grades does, for breeding purposes. The milking doe must be purchased by January 1<sup>st</sup>. The yearling must be purchased by June 1<sup>st</sup>.

Junior Conformation Phase (not in milk and not previously freshened)

- 1426. Doe, up to 6 months of age
- 1427. Doe, 6-12 months of age
- 1428. Doe, 12-24 months of age

Senior Conformation Phase (in milk or previously freshened)

- 1429. Doe, under 2 years
- 1430. Doe, 2 years to 3 years
- 1431. Doe, 3 years and older

Doe, Not In Milk, Previously Freshened

- 1432. Doe, under 2 years
- 1433. Doe, 2 years to 3 years
- 1434. Doe, 3 years and older

Goat Showmanship

All exhibitors in goat classes are eligible to enter. Age is determined as of January 1<sup>st</sup> of the present year.

- 1435. Senior Division, 14 and over
- 1436. Intermediate Division, 10-13 years
- 1437. Junior Division, 7-9 years

Exotic Goats

- 1438A. Pygmy Goat
- 1438B. Fainting Goat

## GOATS, MARKET MEAT

**Judging Date: Friday July 20 at 5:00 p.m.**

Read Rules for [4-H & FFA General Rules](#)

1. Each exhibitor is limited to not more than two entries in any particular class.
2. Livestock exhibitors must be on hand to exhibit animals. In case exhibitor has two entries in the same class, the 4-H or FFA member may ask another Neosho County member to assist him/her, provided it meets with the approval of the superintendent of the department.
3. In classes where there is only one exhibitor, the judge reserves the right to place the animal in the ribbon group they see fit.
4. All livestock exhibitors will have an entry card with them upon entering the show arena.
5. Animals will be placed: Purple – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Blue – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Red – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, etc.
6. Market meat goat classes will be judge by weight classes. First and second place in each eligible weight class will show for grand and reserve grand champion. They will be divided into classes in numbers suitable for judging.
7. The goat's age is determined as of the day of judging.
8. All meat goats must have baby teeth intact and will be mouthed at weigh-in at the fair.
9. Does and wethers may show in the market meat goat class.

You must own, feed and manage one or more purebred of crossbred market meat goats for 90 days before the fair. Meat goats are goats bred for meat purposes. Does or wethers of any breed or mixed breeds judges on merits for meat purposes. Goats should be shown click shorn with the tip of the tail being bobbed. Goats can be braced but must be shown with all four feet on the ground. Exhibitors may use a collar, a collar with a short lead, or a halter when showing. Medium/3mm or smaller pinch collars will be allowed. Market goats cannot be shown in breeding classes. Market meat goats must weigh 50 and 120 pound to be eligible to show for grand and reserve grand champion and to sell in the premium sale.

- 1439. Meat Goat under 50 pounds
- 1440. Market Meat Goat
- 1411A. Breeding Does, all ages

**Meat Goat Showmanship**

All Exhibitors in goat classes are eligible to enter. Age is determined as of January 1<sup>st</sup> of the present year.

- 1142. Senior Division, 14 and over
- 1443. Intermediate Division, 10-13 years
- 1444. Junior Division, 7-9 years



## HOME ENVIRONMENT

Read Rules for [4-H & FFA General Rules](#)

1. Open only to members enrolled in home improvement project.
  2. Articles may have been used before exhibited, but if so, shall be carefully laundered or cleaned before being exhibited.
  3. Educational poster or display or notebooks may include swatches, colors, stories, photographs, and project records which detail what was accomplished this year with a given indication of long-term plans.
  4. An entry card must be attached to the exhibit with safety pin(s) or tape and string.
1720. Single Exhibit  
Article made or re-finished by the member for the home. Attach a 3"x5" index card explaining how the item was made or re-finished, costs involved and how it fits into the color and design of the room.
1721. Educational Exhibit: Poster or Display  
Posters must be no larger than 22"x28" poster board. Displays are not to exceed a standard commercial 3'x4' tri-fold display board.
1722. Educational Exhibit: Notebook

## HORSE

**Judging Date: Sunday, July 22 at 8:00 a.m. \*\*NOTE\*\* Entries will close at 7:30 am show day so show can start in a timely manner.**

Read Rules for [4-H & FFA General Rules](#)

1. You must manage at least one light horse of any breed or age, at least 75% of the time from May 1 through September 30. The member must own or lease the horse yourself or immediate family, or your legal guardian, by May 1<sup>st</sup>.
2. Horses may not be unloaded until they have been checked-in by Superintendent.
3. A negative Coggins Test must be presented at time of unloading.
4. Horse identification certificates must be presented before participating.
5. No more than two members of a family may carry the same horse as a project.
6. Each exhibitor is limited to not more than two entries in any particular class.
7. **IMPORTANT\*\*\*\*** Class entries will close at **7:30 am** the day of the show so that the horse show can start promptly at **8:00 a.m.**
8. No animal or 4-H member may show in the same class more than one time.
9. In classes where there is only one exhibitor, the horse superintendent has the authority to combine classes and to place the animal in the ribbon group they see fit.
10. The horse superintendent shall have the right to determine age and check bits on 2-year old pleasure horses.
11. The age of a colt is determined as of January 1, in the year which it is born. A weanling is a foal of 2018.
12. Stallions will be barred in all but weanling class.
13. Halter Classes will be provided for Quarter Horse and other breeds and will be divided according to age and sex. Horses in halter classes will be judged according to breed characteristics.
14. Classes will be added for mules when necessary. Classes may be added for a specific breed when there are (3) or more exhibitors.
15. The term "stock-type" includes, but is not limited to Appaloosa, Buckskin, Paint and Palomino. The term "non-stock type" includes, but is not limited to, Arabian, Morgan, Thoroughbred, and American Saddlebred.
16. All exhibitors are encouraged to refrain from allowing their horses to be ridden by any other person while at the horse show or during the county fair. Horses must not be ridden between exhibit buildings.
17. The horse barn will be kept full during fair week. The horse superintendent is in charge of assignments. Stall reservations are due at the county Extension office by July 1<sup>st</sup>.

### Dress Code

1. See Kansas 4-H Horse show rule book for Dress Code and Rules and Regulations.
2. The use of protective headgear is acceptable in all judges and timed classes, and the optional choice of the exhibitor. Protective headgear is required in all over fence classes.

### Leasing

You may lease a horse for the project, provided you manage the horse 75% of the time from May 1 through September 30.

### Classes

Halter, Showmanship, English, Pleasure, Horsemanship, Reining, Barrel Racing and Pole Bending.

### Horseless Horse

For those members who would like to learn about horses, but who are unable to own a horse. The members must be enrolled in the regular horse project and meet the requirements to be eligible to show at the County Fair.

Hunter Over Fences\*\*During all over-fence classes and during fence warm up exercises, all exhibitors are required to wear an SE1-ASM approved helmet which must have the SE1 sticker intact on the inside of the helmet, and a date within the last five years.

### Horse Showmanship

All exhibitors in horse classes are eligible to enter. Age is determined as of January 1<sup>st</sup>, of the present year.

1445. Senior Division, 14 and over
1446. Intermediate Division, 10-13 years
1447. Junior Division, 7-9 years
1448. Horseless Showman

#### 4-H Classes

- 1449A. Quarter Horse – Weanling Filly
- 1449B. Other Breed – Weanling Filly
- 1449C. Quarter Horse – Weanling Colt
- 1449D. Other Breed – Weanling Colt
- 1450A. Quarter Horse – Yearling Filly
- 1450B. Other Breed- Yearling Filly
- 1450C. Quarter Horse – Yearling Gelding
- 1450D. Other Breed – Yearling Gelding
- 1451A. Quarter Horse Filly – 2 years
- 1451B. Other Breed Filly – 2 years
- 1451C. Quarter Horse Gelding – 2 years
- 1451D. Other Breeding Gelding – 2 years
- 1452A. Quarter Horse Mare – 3 years
- 1452B. Other Breed Mare – 3 years
- 1453A. Quarter Horse Gelding – 3 years
- 1453B. Other Breed Gelding – 3 years
- 1454A. Hunt Seat Equitation – 14 years and over
- 1454B. Hunt Seat Equitation -13 years and under
- 1454C. Hunter Hack – 14 years and over
- 1454D. Hunter Hack-13 years and under
- 1454E. Hunter Under Saddle – 14 years and over
- 1454F. Hunter Under Saddle – 13 years and under
- 1455A. Horsemanship – 14 years and over
- 1455B. Horsemanship – 10-13 years
- 1455C. Horsemanship – 7-9 years
- 1456A. Pleasure Class – 14 years and over
- 1456B. Pleasure Class – 10-13 years
- 1456C. Pleasure Class – 7-9 years
- 1456D. Walk Trot Pleasure
- 1457A. Reining – 14 years and over
- 1457B. Reining – 10-13 years
- 1457C. Reining – 7-9 years
- 1458A. Trail Class – 14 years and over
- 1458B. Trail Class – 13 years and under
- 1462A. Working Ranch Horse – 13 year & under
- 1462B. Working Ranch Horse – 14 years & over
- 1459. Hunter Over Fences\*\*
- 1459A. Cloverleaf Barrels – 14 and over
- 1459B. Cloverleaf Barrels – 10 -13 years
- 1459C. Cloverleaf Barrels – 7-9 years
- 1460A. Pole Bending – 14 years and over
- 1460B. Pole Bending – 10-13 years
- 1460C. Pole Bending – 7-9 years
- 1461A. Flag Racing – 14 years and over
- 1461B. Flag Racing – 10 13 years
- 1461C. Flag Racing – 7-9 years

#### LEADERSHIP

Read Rules for [4-H & FFA General Rules](#)

Division Posters –

Size must be no larger than 22"x28".

Poster must be prepared to hang on pegboard hooks.

Attach TWO (one on top, one on bottom) wood lathe/board 1½ wide and as long as the poster on the back for weight. Your name, age, club, address and class number should be on the back of the poster.

You must have a Green 4-H Entry tag attached to the front of the poster.

Notebook –

Should have title page with names, age, years in 4-H, and years in project and a story of why you took the project and what you wanted to get out if.

Pictures, stories and newspaper articles relating to the project may be included.

Include any talks or demonstrations given and how you shared what you have learned with others. This report should be 3-5 pages or longer in length and preferably typed.

A poster, notebook or display showing and describing something learned or a project activity done, a community service program, etc.

2074. Leadership

## PETS

Read Rules for [4-H & FFA General Rules](#)

1. Pet must belong to the 4-H member.
2. 4-H member is to be enrolled in specific project in which pet is a part.

2028. Cat Notebook  
2029. Aquarium Pets Notebook  
2030. Hand Pets Notebook  
2031. Pet show Video (specify entry)  
2032. Dog Notebook

## PHOTOGRAPHY

**Judging Date: Thursday, July 19<sup>th</sup> @ 1:00pm-3:00pm**

Read Rules for [4-H & FFA General Rules](#)

**Exhibitors must sign up for a time slot starting at 1:00 p.m. Bring photos at assigned time.**

1. Only those who have met the requirements for the photography project are eligible to exhibit in this division. Photographs entered must be the result of the current years project work by the 4-H member. Photos must be taken by the 4-H member (exhibitor).
2. Black and white prints and color photographs and/or videos may be exhibited.
3. All photos must be no larger than 8"x10" and no smaller than 7"x9".
4. Exhibitor is limited to one entry per class with a maximum limit of seven entries in photography (Fun Category exception).
5. Photos must be mounted across the narrow (11") dimension of an 11"x12½" board of white studio mount with the top edge of the print 1" below the top mount. The sides of the print must be equal from the two sides of the mount.  
**(Board is always oriented narrow side up).** Photo studio mounts are available at the Extension office. Photos mounted on foam core board will not be displayed.  
**Photo Bags:** Photos must be in a 2 gallon Ziplock Bag or in a clear bag. PLEASE DO NOT SEAL THE CLEAR BAGS, superintendents will do that for you.
6. Remove white border from the enlargement before mounting.
7. A permanent mount must be made by using photographic adhesive (spray or sheet), rubber cement is not acceptable.
8. No lettering is permitted on the front of the mount or on the photo.
9. To protect exhibits from dust or moisture, place photo in a 2 gallon self-sealing bag or the photo covers.
10. On the back of the mount, in the UPPER LEFT HAND CORNER, write: the exhibitor's name, address, photo class, location where the photo was taken, Southwind District and Neosho County on it.
11. Improperly mounted photos (including prints with the white borders not removed) will be awarded a ribbon one place lower than the placing determined by the official judges.
12. 4-H Entry Tag, available at the Extension office, MUST be paper clipped to the front of ALL photo exhibits.  
White Labels, available at the Extension office, ONLY need to be used on the following: Picture Story, Panoramic Photo, and beside each picture in the notebook. These will be filled out and placed in the back of your notebook/picture story.
13. Classes will be divided into the following age groups for judging:
  - Senior Division, 14 and over
  - Intermediate Division, 10-13 years
  - Junior Division, 7-9 years
14. Photos entered may be used in the Photography Judging.
15. Photographs taken 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.
16. Digital Composite Image: Finished photo must be created from two or more original sources created by exhibitor. Photos will be judged on photographic merit as well as manipulation technique and process.
17. The black and white class is for black and white prints only. Monochromatic prints, including sepia prints are considered color photos and must be entered in the appropriate color photo class.
18. A grand and reserve rating will be awarded in each age category. One of the three grand champion winners will be named over-all grand champion and awarded a plaque.
19. Improperly mounted photos, oversized or undersized photos or photos with the white borders not removed or lettering (including dates) on the photo, will be awarded a ribbon one place lower than the placing determined by the official judges.
20. Photos with live subject(s) on railroad right away or taken from railroad right of way property will not be displayed in Kansas 4-H Photography ~~and may receive a ribbon penalty~~ and will be disqualified. And not judged.
21. **Photograph examples can be people, nature shot, action, animal/insect, man-made objects, macro (close up) and portrait.**
22. **Digital Composite**  
Photo must be from two or more originals taken by the exhibitor. Exhibitor must include a second 11"x12½" matte board mounted with standard size print or prints (if more than one photo was used) of the original photo(s) and 3x5 card(s) explaining what manipulation was done. May include additional photos (standard size and may be layered) showing editing steps. Place both matte boards in the same protective plastic bag. Note: See rule 16 above for definition.

### Junior (7-9 years old)

1935. Up to 6 color photos, 1 black & white, and digital composite  
1935A Black & White  
1935B Digital Composite

### Intermediate (10 -13 years old)

1936. Up to 6 color photos, 1 black & white, and digital composite

- 1936A Black & White  
1936B Digital Composite

Senior (14 and over)

1937. Up to 7 color photos, 1 black & white, and digital composite  
1937A Black & White  
1937B Digital Composite

**Fun Category**

4-H'ers in any phase may enter. Not eligible for grand or reserve rating at State Fair.

- A special photography class is designed to encourage 4-Her's to think outside the box.
- This year that class is "STILL LIFE".

**Notebook**

No less than 20 or more than 25 pictures of their better pictures. Include 4"x6" prints. Labeling sheet obtained from the Extension office or at [www.southwind.ksu.edu](http://www.southwind.ksu.edu) must be filled out and placed in back of notebook. You may want to name each picture.

1940. Notebook

**PLANT SCIENCE**

**Field Crops**

**Judging Date: Thursday, July 19<sup>th</sup> at 11:00 a.m.**

Read Rules for [4-H & FFA General Rules](#)

**Exhibits must be in place between 8-10 am on Thursday, July 19<sup>th</sup>.**

Entries are to be grown by the club member during 2017-2018. Each member may enter one exhibit per class. All classes calling for a gallon sample may have a 2 ½" – 3" diameter cylinder placed in the glass gallon container to reduce the amount of grain to about three quarts. Every entry must be identified by hybrid or variety name.

**Wheat – one gallon sample**

1738. Soft red winter wheat  
1739. Hard red winter wheat  
1740. Hard white wheat

**Corn – Ten ear exhibit**

1741. Yellow Corn  
1742. White Corn

**Sorghum – ten head exhibit**

1743. Grain sorghum, hybrid  
1744. Hybrid forage sorghum – exhibit to consist of the entire plant; no roots  
1745. Other forage sorghum – exhibit to consist of the entire plant, no roots

**Sunflowers**

1746. Confectionery heads, 3 heads  
1747. Confectionery seeds, 1 gallon  
1748. Oil Seed Heads, 3 heads  
1749. Oil Seed, 1 gallon

**Other Crops**

1750. Oats, 1 gallon  
1751. Barley, 1 gallon  
1752. Alfalfa Seed, 1 gallon  
1753. Alfalfa Hay – exhibit to consist of one flake or rectangular bale, or a 10" section cut from a round bale. Flake or slice should be approximately 6" thick and tied in two directions.  
1754. Grass hay – exhibit to consist of 10" flake or slice and tied in two directions.  
1755. Brome Grass Seed, 1 gallon  
1756. Other Tame Grass Seed, 1 gallon  
1757. Soybeans, 1 gallon – from most recent harvest  
1758. Soybeans, bundle of five from most recent harvest  
1759. Edible Field Beans, 1 gallon from most recent harvest  
1760. Edible Field Beans, bundle of five with roots intact, from most recent harvest  
1761. Miscellaneous Crop – one gallon of seed or 10 heads produced from current project (identify crop and variety)

## Educational Wheat Display

Free standing display must not exceed the overall dimensions of 36" wide x 36" high x 18" deep (measured on the outside). Care should be taken to select durable materials that will withstand fair conditions. Displays must not require electricity and will be judged 70% on the educational value and 30% on the quality of display material.

- Educational Value – is the main idea of the display specific? Was the title or theme emphasized? Is the idea presented so clearly, so simply, so forcefully, that it will stop the casual observer? If the passerby stopped, did the display give the observer additional facts in a clear, concise way? For example, variety differences in wheat, economic gains from adoption of desirable practices, etc.
- Quality of Display Material – Size, style and neatness of lettering. Proportion of models and lettering balanced. Workmanship, including handouts, if used. Charts, models and lettering used effectively to teach idea. Colorful, artistic, neat and well balanced.

1761. Educational Wheat Display

## Weed Control Exhibit

1. Make a standard size (13"x18") wooden plant press for pressing weed plants for mounting. Identify your press with your name and county taped to the bottom side.
2. Exhibit will consist of 4 items listed below:
  - a) Collect, identify, press, mount and label 15 weeds. Try to include their roots, stems, leaves, and flowers. Three of the weeds must be noxious weeds preferably found in your county. A standard 9"x12" scrapbook may be obtained in which to permanently mount your weed specimens. Identify the scrapbook with your name and county on the inside front cover.
  - b) Prepare a list of the weeds mounted showing common name, scientific name, where it was found. Place the list in the specially identified section of the scrapbook.
  - c) Collect and identify weed seeds found in crop seeds. Mount them for display purposes. Place them in a specially identified section of the scrapbook.
  - d) Write a story on 'How We Control Weeds on Our Farm', if you live on a farm. Other members write 'How We Control Weeds at Home'. The story should be about 300 words in length. It must show definite methods used to control weeds. Place the story in a specially identified section of the scrapbook.
3. Basis for Awards - Mounted weed collection: number of mounted specimens, completeness of individual mounts, correctness of identification and information, and neatness. Include record sheet of weeds. 50% on records; 30% on weed seed collection and exhibit; and 20% on story.

1762. Weed Control Exhibit

## Vegetables

Read Rule for [4-H & FFA General Rules](#)

1. Entries are to be grown during [2018](#).
2. Each member may show one exhibit per class with a maximum of eight, excluding the garden display.
3. Consult "Exhibiting and Judging Fruits and Vegetables", KSU Extension Publication XC405, for details on preparation and judging of exhibits.
4. Garden Display – a 4-H member may have one exhibit in a garden display.
5. Variety and name of exhibit must accompany the exhibit.
6. Fresh Culinary Herbs (6)
  - Six stems, or a comparable quantity, of one variety of fresh herbs exhibited in a disposable container of water. Dried herbs are not accepted. A member may enter up to four exhibits, with a different vegetable from small, medium, large or herb class. A county fair exhibitor earning a purple ribbon on an out-of-season vegetable (i.e. early peas) is eligible to exhibit another vegetable (i.e. pumpkin) in its place.

1770. Garden Display

Exhibit consists of 5 different fresh vegetables; each exhibitor will be limited to 4 square feet of space. Display should be exhibited in a tray, basket or container that can be easily moved by the fair superintendents. Canned vegetables are not accepted. Only one variety of a specific vegetable may be exhibited. The numbers of the five vegetables to be exhibited are as follows:

- Large vegetable, one each: watermelon, squash, (summer/winter), pumpkin, eggplant, cabbage or cantaloupe or other large vegetable.
- Medium vegetable, five each: cucumbers, tomatoes, cherry tomatoes, carrots, beets, onions (white/yellow/red), peppers (bell/other), parsnips, okra, potatoes (sweet/red/white/Russet), turnips or other medium size vegetables.
- Small vegetable, 12 each: like snap green beans, yellow wax beans, peas or other small vegetables.
- Shelled vegetables should not be exhibited.
- Choose vegetables that will hold up well during the fair.
- Those that are slightly under-ripe or slightly immature when picked may last longer. Avoid over-ripe or over-mature specimens.

1772. Sunflower, one (head or stalk)

1773. Winter Squash, One (Acorn, Spaghetti, etc)

1774. Summer Squash, one

1775. Squash, Zucchini, one

1776. Squash, crookneck, one summer

1777. Cabbage, any variety, one

1778. Eggplant, one

1779. Cantaloupe, one

1780. Watermelon, one

1781. Pumpkin, one

1782. Green Snap Beans, plate of 12

1783. Yellow Wax Beans, plate 12

1784. Okra, plate of 5

1785. Tomatoes, Standard, plate of 5

1786. Tomatoes, Cherry or Ornamental, plate of 5

1787. Onions, white, plate of 5

4788. Onions, yellow, plate of 5

4789. Onions, red, plate of 5

1790. Table Beets, plate of 5

1791. Carrots, plate of 5

1792. Bell Peppers, plate of 5

1793. Hot Pepper, plate of 5

1794. Other Peppers, plate of 5

1795. Parsnips, any variety, plate of 5

1796. Cucumbers, plate of 5

1797. Radishes, plate of 5

1798. Turnips, plate of 5

1799. White Potatoes, plate of 5

1800. Red Potatoes, plate of 5

1801. Sweet Potatoes, plate of 5

1802. Sweet Corn, plate of 5

1803. Dill, one

1804. Parsley, one

1804A..Fresh Culinary Herbs 6 in water identify herb

1805. Strange Shaped Vegetables

1806. Vegetable with Character

1807. Miscellaneous Vegetable, Identify

Vegetable in classes numbered

1805, 1806, 1807



## Science in Horticulture

This phase provides 4-H members of any age the opportunity to perform simple experiments with plants such as:

- Experimenting with plants, plant parts and their function, plant propagation.

1808. Exhibit

## Landscape

Members learn to plan for the yard and list the family needs and desires and divide the yard into separate areas based on use.

- Trees and shrubs are planted according to the plan.

1810. Exhibit

## Orchard

Exhibit will be plate of 5

- 1825. Apple, any variety
- 1826. Peaches, any variety
- 1827. Pears, any variety
- 1828. Other Fruit

## Flowers

### Floral Entry

All materials should be grown and collected rather than purchased. Houseplants must be cared for by the exhibitor for a minimum of 6 months. Specimens and cut flowers are judged for cultural perfection and condition at time of judging. It is recommended flowers and arrangements are in disposable containers: bottles, jars, mugs, jugs, etc. Single stem specimens may be placed in clear pop bottles. Pickle jars are usable but no decorative ornamental containers. If a non-perishable container is used, mark it plainly with your name. Containers cannot be picked up until release time. Entries should not take over one square foot of table space. A specimen is (1) one stem or branch. Garden Flowers do not include Marigold and Zinnia, as they have their own class. State Fair: Potted plants are not accepted.

Specimens:

- 1830. Garden flower, annual, single stem
- 1831. Garden flower, perennial, single stem
- 1832. Marigolds, large
- 1833.. Marigolds, medium
- 1834. Marigolds, dwarf
- 1835. Zinnia, large
- 1836. Zinnia, small, miniature or button
- 1837. Lily, single stem
- 1838. Roses, any variety
- 1839. Flower arrangement, fresh, judges on artistry
- 1840. Flower arrangement, dried, no fabric or plastic material allowed, judged on artistry
- 1841. Potted plant, foliage type
- 1842. Potted plant, flower type
- 1843. Miscellaneous (specify entry)

## POULTRY

**Judging Date: Saturday, July 21 at 8:00 a.m.**

Read Rules for [4-H & FFA General Rules](#)

Poultry will be entered from 7 a.m. to 10 a.m. on Thursday. Poultry will be caged by breed. Cages will be assigned by the superintendent. Poultry not pre-entered will get left over cages.

1. All birds must be mature enough to be full feathered with adult plumage.
2. The same birds cannot compete in both single and trio classes
3. An exhibitor is limited to not more than two entries in any breed and variety.
4. All eggs laid during the county fair will be gathered by the superintendents in charge.
5. In any class where only one entry is made, awards will be made at the discretion of the judge, based on the quality of the exhibit.
6. Disqualification will bar competition from the class. Some of the more common disqualifications are listed in "A Guideline in Selecting and Preparing Birds for the Show."
7. The comparison system of judging as outlined I the American Standard of Perfection will be used in placing awards. The classes will be judged primarily on the basis of exhibition qualities as described in "The American Bantam Standard of Perfection", 'American Poultry Association", and "The Bantam Standard of Perfection", American Bantam Association.
8. Breeds should be stated at time of pre-entry. It is recommended that you reserve pen space.
9. Entries will not be accepted unless band numbers are listed in the entry book. All birds must be banded when placed in cages.
10. Birds are not to be removed from exhibit building without permission from the superintendent in charge. A person violating any of the rules will forfeit any prize money that may have been awarded.
11. All entries must be the bona fide property of the exhibitor. Any exhibitor in violation of this rule will be subject to disqualification.
12. 4-H exhibitor receiving a top blue/purple (large or bantam) pullet hen, cockerel, and cock, or duck or goose may enter in the appropriate class in Open Class. Water bowls and feeders will be provided.

## Market Poultry

A member must start with any number of chicks or pullets of either sex of for broilers, roosters and turkeys or cockerels for capons. Follow recommended practices to grow birds to market age, starting your chicks so they are 8 weeks old by show time. A broiler or fryer is defined as a young chicken (usually 6-8 weeks old).

## Laying

Grow and/or manage pullets or hens for laying during the current year, keeping accurate records.

- 1465. Production Pullets – Pen, 3 standard bred, crossbred or strain cross pullets to be judged on egg production qualities only.
- 1466. Production Hens – Pen, 3 standard bred, crossbred or strain cross hens to be judged on egg production qualities only.

## Exhibition

Start with any number of species of exhibition poultry (chickens, turkeys, ducks, geese) feed, manage and keep accurate records

- 1467. Meat-type Chickens – pen, 3 standard bred, crossbred or strain cross birds of the same sex, judged on meat production qualities.
- 1468. \*Turkeys, all breeds – 1 bird, either sex, per variety
- 1469. \*Ducks, all breeds – 1 bird, either sex, per variety
- 1470. \*Geese, all breeds – 1 bird, either sex, per variety
- 1471. \*Guinea, all breeds – 1 bird, either sex, per variety
- 1472. Dual Purpose Pullets (such as Rhode Island Red, New Hampshire, Plymouth Rocks)
- 1473. Dual Purpose Hens
- 1474. Miscellaneous (please identify entry)

## Bantam

- 1476. Cock
- 1477. Cockerel
- 1478. Hen
- 1479. Pullet
- 1480. \*Young Trio, 2 pullets and 1 cockerel
- 1481. \*Old Trio, 2 hens and 1 cock

## Large Fowl

- 1482. Cock
- 1483. Cockerel
- 1484. Hen
- 1485. Pullet
- 1486. Young Trio, 2 pullets and 1 cockerel
- 1487. Old trio, 2 hens and 1 cock
- 1488. Miscellaneous Large Fowl (please identify entry)

## Game Birds

- 1490. Quail
- 1491. Miscellaneous Game Bird (please identify entry)

## Pigeons

You must own and care for a minimum of one pair of birds with at least one brood during the first year. All pigeons must be shown with a numbered band. Young birds must be shown with seamless bands, or else be judged in the old class. Young birds are those hatched in the calendar year of the show. Old birds are those hatched in previous calendar year. Judging will be by comparison only, using latest standards of the National Pigeon Association. Exhibitors must designate breed when pre-entering. It is recommended you reserve pen space. Identify – 1 bird, either sex, per variety.

- 1475A. Old Cock
- 1475B. Old Hen
- 1475C. Young Cock
- 1475D. Young Hen

## PUBLIC SPEAKING

Read Rules for Junior Division

A poster, notebook or display showing and describing something learned or a project activity done, a community service program, etc.

- 2075. Public Speaking

## RABBITS

**Judging Date: Friday, July 20 at 8:00 a.m.**

Read Rules for [4-H & FFA General Rules](#)

Pre-Entry: Rabbits must be pre-entered according to Breed, Variety, Class and Sex. Entry forms are available at the Extension office and must be postmarked by July 1<sup>st</sup>, for 4-H and/or Open Class. Entries must be sent to Southwind Extension District, 111 South Butler, Erie, KS 66733. Rabbits will be entered from 7:00 a.m. to 10:00 a.m. on Thursday. Rabbits will be caged by breed. Cages will be assigned by the superintendent. Rabbits not pre-entered will get left over cages.

1. Rabbits must have been owned by June 1<sup>st</sup> by exhibitor, unless raised by breeder.
2. Rabbits must be checked by the show superintendent before being caged.
3. Rabbits must have a permanent tattoo in its left ear or it will be disqualified.
4. Rabbit exhibitors must be on hand to exhibit their rabbits or have another youth show them only in the event of a conflict with another 4-H show.

5. One rabbit per variety, per breed, per class.
6. In classes where there is only one exhibitor, the judge reserves the right to place the animal in the ribbon group they see fit.
7. Rabbits must be healthy and free of disease or they may be rejected at time of entry.
8. Only purebred breeds recognized by the American Rabbit Association may be exhibited and will be judged by ARBA Standards.
9. FUR CLASS – exhibitor may choose one rabbit from his/hers total entry to show in this class.
10. Entries in the classed below will be accepted in all standard breeds of rabbits by age and weight according to the American Rabbit Breeders Association Rules.
11. Only Blue Ribbon winners in purebred rabbits will be eligible for the State Fair.
  - Each 4-H member may enter one rabbit from each Breed in open class. Adults will stand back, so the youth can watch their rabbits being judged. Water bowls and feeders will be provided.

**Rabbit**

- 1495. Sr. Buck
- 1496. Sr. Doe
- 1497. Intermediate Buck, 6-8 months
- 1498. Intermediate Doe, 6-8 months
- 1499. Jr. Buck. 3-6 months
- 1500. Jr. Doe, 3-6 months
- 1501. Meat Pen three rabbits, same breed, (not over 70 days old) maximum weight 5 pounds each.
- 1502. Breed Fur
- 1503. Rex Fur
- 1504. Satin Fur
- 1505. White Angora Fur
- 1506. Colored Angora Fur

**Rabbit Showmanship**

All exhibitors of rabbit classes are eligible to enter. Age is determined as of January 1<sup>st</sup> of the present year.

- 1510. Senior Division, 14 and over
- 1511. Intermediate Division, 10-13 years
- 1512. Junior Division, 7-9 years

**READING**

Read Rules for **4-H & FFA General Rules**

**Reading exhibits are not eligible to State Fair.**

Exhibits will consist of a short written synopsis of each book, listing title and author. Required number of synopsis per year of involvement: first year – 5 synopsis; second year – 10 synopsis; third year – 15 synopsis; up to a maximum of 25. Additional books read beyond the number requested will be listed on a separate sheet giving only title and author. The display may be a poster or a display of items, but must have a written statement for the judge to inform them of the message for the public and its relation to the project.

- 2007. Written book reports (200 words or less) – Intermediate/Junior 7-11 years): one each; Senior (12 and over): two each
  - A. Biography
  - B. Fiction
  - C. Non-Fiction
- 2008. Scrapbook or Notebook
- 2009. Promotional display – Bulletin board or poster that promotes reading. No larger than 2'x3'.
- 2010. Original Writing – may be poems, plays, short story

**SELF DETERMINED**

Read Rules for **4-H & FFA General Rules**

A poster, notebook or display showing and describing something learned, **anything not already a project or identified class** or a project activity done, a community service program, etc.

- 2076. Self-Determined (please indicate entry)                      2068. Health

**VETERINARY SCIENCE Self Determined**

A poster, notebook or display showing a describing something learned or a project activity done, a community service program, etc.

- 2080. Veterinary Science

## SHEEP

Judging Date: **Thursday, July 19<sup>th</sup> at 7:00 p.m.**

Read Rules for [4-H & FFA General Rules](#)

1. Each exhibitor is limited to not more than two entries in any particular class.
2. Livestock exhibitors must be on hand to exhibit animals. In case exhibitor has two entries in the same class the 4-H member or FFA member may ask another Neosho county member to assist him/her, provided it meets with the approval of the superintendent of the department.
3. In classes with only one exhibitor, the judge reserves the right to place the animal in the ribbon group they see fit.
4. All Livestock exhibitors will have an entry card with them upon entering the show arena. Livestock will be placed: Purple – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Blue – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Red – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, etc.
5. Market lamb classes will be judged by weight classes. First and second place in each eligible weight class will show for grand and reserve champion. They will be divided into classes in numbers suitable for judging.
6. Only ewe lambs or wethers can be shown as market lambs.
7. Lambs dropped before January 1<sup>st</sup> of the present year will not be eligible to compete in lamb classes.
8. The following classes will be provided for the breeding sheep class: Cheviot, Columbia, Corriedale, Dorset, Hampshire, Montadale, Southdown, Suffolk, Shropshire, other standard breeds and Crossbreds.
9. When weighed in, the lamb will be dry and slick shorn with no more than 1/5" wool. Animals may not show in both breeding and market classes. Sheep grooming and washing will be confined to the sheep/hog barn area.

### Market Lamb

You must own, feed and manage one or more purebred, crossbred, of grade lambs at least 60 days before the fair. Lambs dropped before January 1<sup>st</sup> will not be eligible to compete in lamb classes. Lambs must weigh between 95-155 pounds to be eligible to show for grand and reserve champion and to sell in the premium sale.

1520. Market Lamb

### Breeding Sheep

You must own, feed and manage one or more purebred or crossbred ewe lambs, yearling ewes or older ewes. The base date for breeding ewes class is September 1<sup>st</sup>. They must be registered if showing at the State Fair.

### Sheep Showmanship

All exhibitors in sheep classes are eligible to enter. Age is determined as of January 1<sup>st</sup> of the present year.

1525. Senior Division, 14 and over  
1526. Intermediate Division, 10-13 years  
1527. Junior Division, 7-9 years

## SHOOTING SPORTS

Read Rules for [4-H & FFA General Rules](#)

A poster, notebook or display showing and describing something learned or a project activity done, a community service program, etc.

1. A member may make TWO entries in this division. (State Fair only allows one).
2. Exhibits in this division are open to educational displays or promotional posters. Follow copy right laws as explained in the General Rules as you are preparing your exhibit. Take care to select durable materials to with stand State Fair conditions. Entries will prominently incorporate the 4-H Clover with KSRE branding and should include the Kansas 4-H Shooting Sports emblem. Failure to do so will penalize entry one ribbon color.
3. **Educational Display:** must be the standard tri-fold board ONLY, must not exceed standard tri-fold: 3'x4'; no additional table space available for promotional brochures or display items; content not to exceed display board borders. Failure to follow size limitations will penalize entry one ribbon color.
4. **Promotional Posters:** must be flat and no larger than 22"x30"; content not to exceed display board borders; Failure to follow size limitations will penalize entry one ribbon color. Posters will be displayed on wall.
5. **Notebooks**—must be displays in a 8 ½ x 11, 3-ring binder. THE EXHIBIT SIZE RULE WILL BE STRICTLY ENFORCED! Exhibits exceeding the size guidelines will be penalized one ribbon color.
6. EXHIBITORS MUST COMPLY WITH STATE AND FEDERAL LAWS AND KANSAS STATE FAIR MANAGEMENT POLICIES. No "live" ammunition containing propellant or explosive powders may be used in any display! An inert substitution must be used in lieu of powder and "live" ammunition, The substitution must be clearly described on the back of the poster, display or in a notebook. Please remember that neither the Kansas State Fair nor the department of 4-H Youth Development, Kansas State University Research and Extension are liable for the loss or damage of any personal property included as part of your poster, display or notebook.
7. Name, county or district, age and year in project should be on the front of the poster, display or notebook.
8. Exhibits will only be accepted from Extension Units with 4-H Certified Shooting Sports Programs.
9. Exhibits will not be accepted if they are related to reloads.
- 10 Educational Displays will be judged on the following points:

Stopping Power.....	15
Interest, Holding Power.....	15
4-H Project application.....	15
Mechanical Power.....	5
Personal Growth.....	25
Educational Value.....	25
TOTAL.....	100

11. Posters will be judged on the following points:

Stopping Power.....	30
Interest, Holding Power.....	30
4-H Project application.....	25
Mechanical Power.....	15
TOTAL.....	100

2077A Educational Display-Must be directly related to the 4-H Shooting Sports Project (standard tri-fold boards only, no larger than 3'x4').

2077B Promotional Poster-Must promote 4-H Shooting Sports(Flat poster no larger than 22"x30")

2077C Notebook –Contents pertain to some phase, results, story or information about 4-H Shooting Sports

**SPACETECH (Open to all youth ages 7-18)**

Monday, July 16<sup>th</sup> at 4:00 pm – Courthouse

Read Rules for 4-H & FFA General Rules

**ASTRONOMY**

1. The 4-H member must be currently enrolled in the 4-H SpaceTech project to exhibit in this division.
2. Each exhibitor may enter one exhibit per class. Exhibit must have been completed during the current 4-H year and have been selected at the county level for entry at the State Fair level. Counties or districts should select only top blue or purple ribbon Astronomy exhibits which meet State Fair guidelines.
3. Telescopes entered in this division may be built from a kit or by original design. Pre-finished telescopes, which require no construction or painting are not acceptable exhibits.
4. Telescopes are limited to no more than 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.
5. Each State Fair telescope exhibit must include a "4-H Astronomy Exhibit Information Form," which should be attached to the outside of a 10" x 13" manila envelope. You must also include construction plans (or a photocopy) of the telescope and place it inside the manila envelope. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
6. See the last section for full details about exhibiting posters, display boards and notebooks.
7. Two photographs showing telescope construction and operation are required. Photographs should be mounted on one side of an 8 ½" x 11" page. A brief caption should accompany each photograph. Place photos in the 10" x 13" manila envelope.
8. The telescope must be properly assembled and painted with a smooth and uniform finish. Decals, if used, should be attached smooth and tight.
9. Telescopes designed by the exhibitor must be original, not a modification of an existing kit.
10. Exhibitor's name, county or district, age, and year(s) in project must be tagged or labeled in a prominent location on the telescope stand, educational display, notebook, and/or poster.
11. SpaceTech Superintendent(s) will be present on the first Friday of the fair at 5:00 pm to convey judging criteria and to answer questions for exhibitors. Consultation/Interview judging is not available during judging on Friday.
12. Astronomy exhibits may be checked out for use in a Kansas State Fair 4-H demonstration or 4-H illustrated talk with prior permission. For permission, check with the superintendent or Deryl Waldren. The exhibit must be returned to display immediately after the demonstration/illustrated talk or the exhibit will be disqualified.

5500 Telescope made from kit

5501 Telescope made from original design

**COMPUTERS**

1. The 4-H computer project teaches concepts related to computers, hardware knowledge, software programming and applications, internet safety, the building, maintenance and repair of computers and future career opportunities. Please note that the actual construction of computer hardware (i.e., building a computer, electronic devices with a mother-board based manipulation) will remain in the Energy Management division.
2. The 4-H members must be currently enrolled in the 4-H SpaceTech project to exhibit in this division.
3. Each exhibitor may enter one exhibit per class. Exhibit must have been completed during the current 4-H year and have been selected at the county level for entry at the State Fair level. Counties or district should select only top blue or purple ribbon computer exhibits which meet State Fair guidelines.
4. Exhibitor's name, county or district, 4-H age, and years(s) in project must be tagged or labeled in a prominent location on the exhibit, educational display, notebook, and/or poster.
5. See the last section for full details about exhibiting posters, display boards and notebooks.
6. If the notebook illustrates the creation, talks about, or shows the result of an app, application, executable, program, or other compiled /interpreted "source code," a copy of the source code should be included. (In other words if you created an app for a smart phone and you're illustrating that app, you should include the code you used to build the app). Failure to include a copy of the "source code" may result in up to one ribbon place deduction.

**Computer Systems**

The Kansas 4-H SpaceTech Computer Systems portion of the computer project is designed to allow 4-H members to explore how *information* is moved from one part of the computer to the other; how *information* is moved between two or more computer systems (networking); how *information* is stored; or how *information* is acted on (programming).

Any item which is not a notebook, display board, or poster displayed in this class is considered a "computer system" exhibit and MUST follow the rules set forth below.

1. All exhibits must be self-contained on a USB drive (thumb drive, flash drive, jump drive, or other any other name for a small USB storage device; the rules will use "USB drive"). This means that a judge can plug in the USB drive into a computer and be able to run the exhibit as described below. Physical computers as an exhibit will not be accepted.
2. All revisions of all forms previously released for the SpaceTech division either undated or dated prior to current year are void for use and new forms must be obtained and used that are dated by the Kansas State 4-H Office for the current year. Use of old forms will result in the loss of one ribbon placing for exhibits.
- 3.

4. For all computer system entries (those entries not covered by the rules above) the following items are required as part of an exhibit packet:
  - a. A manila envelope with the Computer Exhibit Form attached to the front, this form can be downloaded at [www.KansasSpaceTech.com](http://www.KansasSpaceTech.com).
  - b. A USB drive labeled with the 4-Hers name, county/district, and club; in a way that does not prevent it from being plugged into a computer.
  - c. At least one (1) graphic (picture, screen shot/capture, slide, etc.) of the project must be printed out on an 8.5" X 11" sheet of standard computer paper, placed in a plastic sheet protector, to allow for proper display and recognition at the Kansas State Fair. On the back side of the graphic the 4-Her's name, county/district, and club should be listed.
  - d. Instructions to run any part of the exhibit on the USB drive.  
(There should be at least three (3) items in your manila envelope: USB drive, graphic and instructions).
5. Each exhibit must be accompanied by a "4-H Engineer's Journal." The engineer's journal should be typed. It can either be included electronically on the USB drive (preferred) or printed and placed in the manila envelope.
  - a. The "4-H Engineer's Journal" should start with a dated entry describing what the 4-H member is trying to accomplish/build.
  - b. The "4-H Engineer's Journal" should conclude with a dated entry describing what the 4-H member achieved in creating. (The start and end many times will be different. The judges are interested in the journey).
  - c. Additional entries in the "4-H Engineer's Journal" should be made as progress occur describing successes and failures; as well as the steps done and any sources of information including links used.
  - d. Pictures can also be included in the "4-H Engineer's Journal" but should not be more than 50% of the entries.
  - e. The "4-H Engineer's Journal" should contain at least one graphic.
  - f. The "4-H Engineer's Journal" must be at least 3 pages in length.
  - g. An example of a "4-H Engineer's Journal" can be found at [www.KansasSpaceTech.com](http://www.KansasSpaceTech.com).
  - h. The "4-H Engineer's Journal" will comprise 50% of the overall exhibit score. Failure to include a "4-H Engineer's Journal" will result in the exhibit being disqualified.
6. If the exhibit is a program, application, app, web site, or requires any coding, the source code must be included on the USB drive.
7. Diagrams or decision trees showing the logical flow of the system must be included on the USB drive for all exhibits.
8. Since there is no conference judging at the Kansas State Fair, a set of instructions must be provided to run the computer system/application. These instructions should be printed off and included in the exhibit package and a copy should be included on the USB drive.
  - a. **FOR COUNTY FAIRS** it is recommended that 4-Hers bring a computer that will run their project to the fair for judging as judges typically do not bring computers with them. Operating instructions are still required.
  - b. Instructions should be written as though you were helping a less techy person, (like a grandparent) use the USB drive with a computer similar to what is described in rule 9 below. An example of instructions can be found at [www.KansasSpaceTech.com](http://www.KansasSpaceTech.com).
9. Each exhibit must accomplish a specific automated task using a computer or virtual machine (VM).
10. Kansas State Fair Judge(s) in the computer systems division will have a physical computer with the following minimum configuration:
  - a. Microsoft Windows® 7 – 64bit
  - b. Microsoft Office® Home 2010 (Excel, Power Point, & Word)
  - c. Microsoft Internet Explorer®
  - d. Mozilla Firefox® Browser
  - e. Google Chrome® Browser
  - f. Java for Windows
  - g. Adobe Acrobat Reader®
  - h. Apache OpenOffice®
  - i. VMware Player 7.0.0 Windows 64bit
11. 4-Hers should not assume that the computers in rule 9 have Internet connectivity and that any parts of the exhibit that require Internet access will not work. It is strongly recommended that 4-Hers test exhibits on a computer with Internet connectivity disabled.
12. Kansas 4-H SpaceTech has made available Linux Virtual Machines (VMs) that can be downloaded and used to create projects on such as web servers, networking, and many other projects. For more information on how these VMs can be leveraged or to download them visit [www.KansasSpaceTech.com](http://www.KansasSpaceTech.com). 4-Hers are not required to use the VMs in their projects. They are optional.
13. All licensing should be adhered to for any software used in the exhibit. Failure to do so will result in a reduction of one ribbon placing and may not be considered for best of show.
14. The creation of viruses, malware, malicious applications or code, defamatory language or graphics, bullying, or any material that is "mean," "dangerous," or harmful according to the judge's opinion will result in the exhibit being disqualified.
15. Pictures or still graphics created are not eligible for entry as a project in this division, and should be entered in the appropriate photography division.
16. Judging will be based on a score sheet which can be found at [www.KansasSpaceTech.com](http://www.KansasSpaceTech.com). There are four (4) areas each exhibit will be judged on. They are:
  - a. 4-H Engineers Journal (what I learned to make it work), 50% overall score
  - b. Instructions (how I help others make it work), 25% overall score
  - c. Functionality (does it work), 12% overall score
  - d. Diagrams (and code if applicable) (how I think it works), 13% overall score

#### Division B – Computer Systems

- 5590 Computer program, application, app, script, or coded system that is new and unique (not merely a file run in a program, such as a 'word document' or a picture drawn in 'Microsoft Paint.')
- 5591 Computer presentation (power point, web page/site, animated graphics, etc.)
- 5592 Single computer system (web server, database server, etc.)
- 5593 Networked system consisting of two or more computers



## ROBOTICS

1. 4-H members must be currently enrolled in the Kansas 4-H SpaceTech project to exhibit in this division.
2. Each exhibitor may enter one robot per class. Exhibit must have been constructed and/or completed during the current 4-H year. The robot must have been selected at the county level for entry at the State Fair. Counties or districts should select only top blue or purple ribbon robot exhibits which meet State Fair guidelines.
3. Each robot must be free-standing, without the need for additional supports in order to be moved or exhibited.
4. Robot dimensions should not exceed 2 feet high, by 2 feet wide, by 2 feet deep. Weight may not exceed 15 pounds.
5. All electric components of the robot must be adequately covered or concealed with a protective enclosure. Paper is NOT considered an adequate enclosure or covering for electrical components.
6. Robots may be powered by an electrical, battery, water, air or solar source only. Junk drawer robots may be powered by a non-traditional power source. Robots powered by fossil fuels/flammable liquids will be disqualified. Robots that include weaponry of any kind will be disqualified. Weaponry is defined as any instrument, possession or creation, physical and/or electrical that could be used to inflict damage and/or harm to individuals, animal life, and/or property.
7. Remote controlled robots are allowed under certain conditions provided that the robot is not drivable. Remote controlled cars, boats, planes and/or action figures, etc. are not allowed.
8. Each robot must be in operable working condition. The judges will operate each robot to evaluate its workmanship and its ability to complete the required tasks for this current 4-H year.
9. Each exhibitor is required to complete the "4-H SpaceTech Robotics Exhibit Information Form" which is available through your local K-State Research and Extension office. This form must be attached to the outside of a 10" x 13" manila envelope. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
10. The exhibit must include written instructions for operation, construction plans, one to three pages of project photographs or a 5 minute CD, DVD, or video presentation, and robot programming information, if applicable. However, no exhibitor will be allowed to set up their robot in person. This information should be placed inside the 10" x 13" manila envelope mentioned above. The exhibitor may enter their electronic project listed under the electric program as under the SpaceTech robotics project if the exhibitor so chooses.
11. Creativity, workmanship, and functionality will be strong criteria in judging the "Robot designed by Exhibitor" classes.
12. Exhibitor's name(s) and county or district must be tagged or labeled in a prominent location on the robot, educational display, notebook and/or poster board. Sources of scientific information must be cited on the front of your exhibits, including all posers and educational display boards.
13. Team project notebooks must be organized in a 3-ring binder and should highlight information/roles of each team member, drawings, charts, photographs, goals and objectives of your robotics project, and all robotic competitions your team has competed in during the current 4-H year.
14. There are no county or district boundaries that must be adhered to in order to form a Kansas 4-H SpaceTech Robotics team. However, as mentioned in #1, each team member must be currently enrolled in the Kansas 4-H SpaceTech project.
15. SpaceTech Superintendent(s) will be present on the first Friday of the fair at 5:00 pm to convey judging criteria and to answer questions for exhibitors. Consultation/interview judging is not available during judging on Friday.
16. Robotics exhibits may be checked out for use in a Kansas State Fair 4-H demonstration or 4-H illustrated talk with prior permission. The exhibit must be returned to display immediately after the demonstration/illustrated talk or the exhibit will be disqualified.
17. See the last section for full details about exhibiting posters, display boards and notebooks.

### Division A - Novice – One to Two Years in Robotics Project

- 5505 Robot made from a commercial (purchased) kit.
- 5506 Robot designed and constructed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.
- 5507 Programmable robot made from a commercial (purchased) kit.
- 5519 Robot designed and constructed by exhibitor or from a commercial kit, that is operated by a remote controlled device
- 5543 Junk Drawer Robotics-based curriculum robot

### Division B – Intermediate – Three to Four Years in Robotics Project

- 5509 Robot made from a commercial (purchased) kit.
- 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

### Division C – Professional – Five or More Years in Robotics Project

- 5513 Robot made from a commercial (purchased) kit
- 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

### Division D – Team Robotics Project

- 5517 Robot designed and constructed by two or more 4-H SpaceTech project members. The robot must not be a mere modification of an existing robot kit or plan. The robot may be a programmable type that is made from a commercial (purchased) kit. This division is designed to encourage teamwork and cooperation among fellow 4-H SpaceTech members. As with many high tech projects today, no one person designs and builds a robot alone. It takes the brainstorming, planning, problem solving, and cooperation of an entire team to complete a given robotics project.

## ROCKETRY

### A. Exhibit Information for ALL rocketry categories:

1. SpaceTech superintendent(s) will be present on the first Friday of the fair at 5:00 p.m. to convey judging criteria and to answer questions for exhibitors. Consultation/interview judging is not available during judging on Friday.
2. All revisions of all forms previously released for the SpaceTech division either undated or dated prior to current year are void for use and new forms must be obtained and used that are dated by the State 4-H Office for the current year. Use of old forms will result in the loss of one ribbon placing for exhibits.
3. Relevant documents may be obtained from County Extension Offices or from [www.KansasSpaceTech.com](http://www.KansasSpaceTech.com)
4. Rocketry exhibits may be checked out for use in the Kansas State Fair 4-H demonstration or 4-H illustrated talk with prior permission. The exhibit must be returned to display immediately after the demonstration/illustrated talk or the exhibit will be disqualified.
5. NAR refers to the National Association of Rocketry and its governing board.
6. All NAR documents, with the exception of the "pink book," referenced herein can be found at <http://www.nar.org>.
7. If a fire burn ban is in effect for any county in Kansas, exhibitors in any Kansas County are not required to launch their rocket(s). All requirements for the launching of rockets for the state fair and the documenting of the launching are suspended for the duration of the ban.
8. See the last section for full details about exhibiting posters, display boards and notebooks.

### B. Exhibit Definitions for ALL rocketry categories:

1. As defined by the National Association of Rocketry (NAR), a scale model is "any model rocket that is a true scale model of an existing or historical guided missile, rocket vehicle, or space vehicle." The intent of scale modeling is, according to the NAR, "to produce an accurate, flying replica of a real rocket vehicle that exhibits maximum craftsmanship in construction, finish, and flight performance." (NAR "Pink Book" 50.1 4-1)
  2. Adult supervision is defined as being under the direct supervision of someone 18 years of age or older.
  3. For the purposes of Kansas 4-H SpaceTech a high powered rocket is defined as a rocket that meets any of the following criteria:
    - a. Is 2 inches or greater in diameter (not including fins) and taller than 3 feet (36 inches including fins)
- b. Weighs more than 3.3125 pounds (53 ounces or 1500 grams) at the time of launch;
- c. Uses an 'E' engine or larger to launch (2D's, 4C's, 8B's, etc.);
- d. The total impulse of all engines used in the rocket is greater than 20.01 Newton-seconds of thrust.
- e. Models powered by rocket motors not classified as model rocket motors per NFPA 1122, e.g.:
- i. Average thrust in excess of 80.01 Newtons
  - ii. Contains in excess of 2.2 ounces (62.5 grams) of propellant and are limited to only H and I motors.
1. High power certification is defined as having successfully completed a certification program for high-powered rocketry through the NAR and maintaining that certification. This applies to all membership levels in the NAR. Specifically the "Formal Participation Procedure" for the "Junior HPR Level 1 Participation Program" as outlined by the NAR.
  2. NAR rules for launching and construction of all rockets are assumed to be used by all 4-H SpaceTech exhibitors and will be considered during judging.
  3. For the purposes of Kansas 4-H SpaceTech, NO rocket may be launched using engines totaling more than an 'I' impulse engine or 640 Newton-seconds of total thrust.

### C. Exhibit Rules for ALL rocketry categories:

Purpose: These rules apply to how rockets are to be displayed at the fair and what those displays should and should not contain. These rules apply to all rockets displayed in the SpaceTech division.

1. 4-H members must be currently enrolled in the 4-H SpaceTech-Rocketry program to exhibit in this division.
2. Entries must have been selected at the county level for entry at the State Fair. Counties/Districts should select top blue or purple ribbon rocketry exhibits which meet Kansas State Fair guidelines.
3. Each exhibitor may enter up to two rocket exhibits that have been constructed during the current year. If two rockets are entered, one rocket must be either a "kit" or a "rocketry educational exhibit" and the second may be entered into any other applicable class. An exhibitor may not enter two rockets in the same class.
4. The report that accompanies the rocket must be limited to the 4-H SpaceTech Rocket Exhibit Information Form which is affixed to a 10" x 13" envelope. This envelope should NOT be attached to the rocket stand or rocket. This may be downloaded from [www.KansasSpaceTech.com](http://www.KansasSpaceTech.com) Any rocket exhibit not including this completed envelope will receive an automatic participation ribbon.
5. Plans (or a photocopy) must be placed inside the envelope.
  - a. This includes original design rockets.
  - b. If a rocket kit has been modified structurally, notations need to be given indicating the changes made, either by notations on the Rocket Exhibit Information Form or by placing notes in the plans.
6. One or more photographs of the rocket at the launch site are required.
  - a. Photographs showing the rocket at the moment of ignition are preferred.
  - b. Photographs must be mounted on one side of 8 1/2" x 11" page(s).
  - c. There must be at least 1 page of photos and no more than 5 pages of photos.
  - d. Include at least one photo showing rocket construction, preferably with the exhibitor included.
  - e. Do not include photos of members catching their rockets as they return to earth. This is an unsafe practice, and we do not recommend or condone this practice.
7. To exhibit in this division:
  - a. The rocket must have been flown.
  - b. Support rods must not extend past the tip of the highest nosecone on the model.
  - c. Support rods must remain in the upright position, 90 degrees to the display base, do not angle. If support rods are not perpendicular to the base, the judge should deduct two ribbon placings.
  - d. No model may be submitted on a launch pad.
8. Launches should not be conducted in winds above 20 mph, and will constitute a disqualification of rocket exhibit.
9. All rockets must have a safe method of recovery, e.g., parachute, streamer or tumble recovery. Any rocket without a recovery system will be disqualified.

10. The altitude achieved by the rocket is to be determined using a method other than estimation. Examples of accepted methods include altimeter, computer software, range finders, etc. If additional space is needed to show calculations of how the altitude was achieved one additional page may be added to the rocketry information pack.
11. Flight damage is to be documented by the participant on either the construction plans or the 4-H SpaceTech Rocket Exhibit Information Form.
12. The judging of flight damage is to be secondary to all other aspects of the model and only then may it even be considered. However under no circumstance may flight damage be grounds for disqualification.
13. Engines and igniters, under any circumstance, ARE NOT permitted with the exhibit and constitute an immediate disqualification.
14. If an engine becomes stuck, jammed, wedged, or in any other way permanently affixed in or to a rocket and cannot be removed from the rocket, the rocket will be subject to immediate disqualification. This is because it is not possible to make a full and immediate assessment of the safety of the rocket when it is being judged and safety is paramount.
15. Engines may not be used as display stands hollowed out or otherwise. This is a significant change from previous year's rules. Engines used as a display stand will be subject to immediate disqualification.
16. Rocket engines should not be used to join multi-stage rockets together.
  - a. Multi-stage rockets can be displayed without having the stages connected together.
  - b. The different stages must be included to complete the rocketry exhibit, incomplete exhibits will be deducted at least one ribbon placing.
  - c. Use of any engines to join the stages together will be subject to immediate disqualification.
17. Multi-stage rockets can be flown using just the final stage and be considered fully flown.
18. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's rocket, at the judges' discretion, will receive a participation ribbon. All information necessary will be given to the NAR and TRIPOLI for investigation and possible revocation of membership.

#### D. Construction Rule for All Rockets

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

1. Rockets are to be properly assembled according to the assembly instructions.
2. Beginner kits with prefabricated fin assemblies and pre-finished rockets requiring no painting are not acceptable, and will be disqualified.
3. Plastic snap together fins and prefabricated fin assemblies that **do not** require fin alignment are not acceptable, and will be disqualified.
  - a. This rule does not apply to plastic fins that must be manually aligned and do not utilize a fin alignment mechanism, including, but not limited to fin alignment rings or spacing blocks.
  - b. This rule does not apply to fiberglass, Kevlar, extruded foam, composite, or wood fins; especially when used for "through-the-wall" fin attachment techniques that are common in larger rockets.
  - c. In addition, plastic parts for decorative and mechanical purposes (i.e. decorative nozzles and moving landing struts) are not considered fins and can consist of plastic. Decorative nozzles, etc. need to be securely fastened and not pose a safety hazard.
4. Angles of fins must fall within a plus or minus 2 degree variation using an approved fin alignment guide (such as KSSTAC10). An official fin guide is available from [www.KansasSpaceTech.com](http://www.KansasSpaceTech.com).
5. Fins should be rounded or streamlined to reduce drag on all exposed sides unless instructions indicate otherwise.
6. Fins and body tubes are to be sealed with sanding sealer and/or primer to eliminate the appearance of body grooves and wood grain.
7. Fins and launch lugs are to be filleted to reduce drag and properly secure them to the model.
8. Any seams on plastic parts are to be sanded smooth.
9. Body tubes/airframes/engine mounts can be made from suitable materials, including, but not limited to: reinforced paper, cardboard, phenolic resin, specialized polymer resins, fiberglass, Kevlar, or other suitable structural materials.
10. The nose cone is to fit snugly but still allow for easy removal.
11. Exhibits must be uniformly painted and smoothly finished or finished as per rocket instructions, and have decals applied smoothly.
12. Non-standard surfacing (such as textured paint) may be used if directed by the instructions, this includes scratch built rockets.
13. Models may not be judged based on their paint scheme (colors and placement on the rocket), with the exception of rockets that fit the definition of a "scale model." All other rockets do not have to follow the suggested paint scheme, allowing the 4-Her to display maximum creativity in the finishing of their rocket.
  - a. Under no circumstances is the weight given to the paint scheme to be sufficient enough, by itself, to move the model from one ribbon placing to another.
14. "Scale models" may be judged based on their paint scheme. The judge may deduct up to one ribbon placing for not following the paint scheme.
15. Scale Model Rockets are to be finished and completed with a majority (greater than 70%) of decals.

#### E. Model Rocketry Guidelines (ages 7 and up):

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

1. Rockets classified as high powered may not be entered in this category.
2. Each rocket must be able to stand freely by itself or be supported by a solid base, not to exceed 4-1/4" (four and one quarter inch) thick and 8" square. The exhibitor's name, county or district, and age must be labeled on the top of the base.
3. If the model rocket is greater than 4 feet tall it can be displayed without a base, or displayed parallel to the ground with up to 3 notched blocks not to exceed 4" in height width and depth. The exhibitor's name, county or district, and age must be labeled on the top of the base.
4. All exhibitors must comply with the NAR Model Rocket Safety Code that is in effect as of October 1st of the current 4-H year. However in the event that there is a modification in this code, the SpaceTech Action Team may review and implement the modified code.

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

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

1. Original design rockets cannot be a modification of a pre-existing kit and must be of original design.
2. Original design rockets must be designed by the exhibitor(s).
3. Original design rockets must include detailed instructions, so that someone could construct the original designed rocket just like a kit purchased at a store. Instructions can be as many pages as needed to convey full and complete construction techniques.
4. Original design rocket instructions should not include copies of instructions in part or in whole from existing kits.

5. For a rocket entered in the original design classes, describe in the summary how the rocket was tested for stability prior to flying.
6. Up to 4 additional pages can be added to the rocketry information pack detailing the test(s) performed to insure stability. 4-Her's are strongly encouraged to provide as much detail as possible. Failure to provide adequate written documentation will result in a disqualification.

### **G. Alternative Skins (ages 14 and up):**

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

Construction and Operating Rules and Guidelines:

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

Types of Covering:

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

Quality of Finish:

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

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

### **Division A -Exhibitors 7 through 13 years old**

5520 Rocket made from kit. Include plans.

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

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

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

5525 Rocket made from kit. Include plans.

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

5527 Rocket designed by exhibitor: that uses alternative skins; not merely a modification of an existing kit. Include original plans.

### **Division D -Exhibitors 11 years and older**

This class is designed to encourage teamwork among individuals and clubs to work on a rocket from the initial design to the finished product.

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

### **High Power Rocketry Guidelines:**

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

1. Exhibitors must be at least 14 years of age by January 1 of the current year.
2. The rules for ALL categories apply.
3. In addition to the information packet completed for all rockets, a high power information form is to be completed and placed inside of the information packet. This may be downloaded from <http://www.Kansas4-H.org/>. Click on KSF Packet link.
4. The NAR High Power Rocket Safety Code applies to the construction and launching of all rockets displayed in this division. As such all exhibitors must comply with the NAR High Power Rocket Safety Code that is in effect as of October 1st of the current 4-H year. However in the event that there is a modification in this code the SpaceTech Action Team may review and implement the modified code.
5. All rockets in this division are to be launched under adult supervision by the 4-H member who constructed the rocket.
6. If a rocket is launched using an engine(s) that has 160.1 ('H' engine or equivalent amount of smaller engines) Newton's-seconds or larger, adult supervision must be provided by an individual having at least a level 1 high power certification. The 4-H member should also hold or be attempting to attain their level 1 high power certification, and should include supporting documentation of such (a copy of Level 1 card is sufficient).
7. If according to Federal Aviation Regulations Part 101, a waiver is required to fly the rocket, a copy of that waiver is to be attached to the High Power Information Form. In the case where the launch was a public event a substitute to a copy of the waiver is the Range Safety Officers (RSO's) contact information.
8. High Power Rockets may be displayed without a supporting stand. If a supporting stand is used, it is not to exceed 4-1/4" (four and one-quarter inch) thick and 8" square. The exhibitor's name, county or district, and age must be labeled on the base.

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

5535 High power rocket made from kit or original design.

## SPACETECH – UNMANNED AERIAL SYSTEMS

Purpose: The 4-H unmanned aerial systems or UAS project explores the world from above the trees and discovers new frontiers with UASs. Members explore the uses and applications of unmanned aerial systems including how UASs link to other projects such as geology, robotics, electronics, crop science and many more.

1. The 4-H members must be currently enrolled in the 4-H SpaceTech project to exhibit in this division.
2. Each exhibitor may enter one exhibit per class. Exhibit must have been completed during the current 4-H year and have been selected at the county level for entry at the State Fair level. Counties or district should select only top blue or purple ribbon computer exhibits which meet State Fair guidelines.
3. For 2017, display boards, posters and notebooks are the only unmanned aerial systems exhibits being accepted. In 2018, more classes will be added for UASs.
4. Unmanned aerial systems exhibits may be checked out for use in a Kansas State Fair 4-H demonstration or 4-H illustrated talk with prior permission. For permission, check with the superintendent or Deryl Waldren. The exhibit must be returned to display immediately after the demonstration/illustrated talk or the exhibit will be disqualified.
5. Exhibitor's name, county or district, age, and years(s) in project must be tagged or labeled in a prominent location on the exhibit, educational display, notebook, and/or poster.
6. Unmanned Aerial Systems that include or depict weaponry of any kind will be disqualified.
7. See the last section for full details about exhibiting posters, display boards and notebooks.

## SPACETECH EDUCATIONAL EXHIBITS – POSTERS, NOTEBOOKS AND DISPLAY BOARDS

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

1. The General Exhibit rules for ALL categories apply.
2. Entries must have been selected at the county level for entry at the Kansas State Fair. Counties/Districts should select top blue or purple ribbon Educational Rocketry Exhibits which meet State Fair guidelines.
3. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
4. Exhibits in posters, notebooks and display boards may not be just a static project, but must contain substantial supporting educational materials in the form of posters, notebooks, or display boards, etc.
5. Educational display boards, posters and notebooks should be creative and showcase details about the knowledge learned in the project during the current 4-H year. Value is placed on youth who can demonstrate how their skills have increased while completing the project. Each exhibit will be judged on uniqueness, creativity, neatness, accuracy of material, knowledge gained, and content. An exhibit judging score sheet will be available at [www.kansasspacetech.com](http://www.kansasspacetech.com). For example, a rocket may have crashed and/or is highly damaged that can't be launched again may be made into an educational display or poster that tells a great story with many lessons learned.
6. Follow copyright laws, citing all sources of information in a standard notation on the "4-H Educational Rocketry Exhibit Information Form." Additional pages can be added inside the Information Packet and should be labeled "Citations." Sources of scientific information must be cited on the front of your exhibit, including all posters and educational display boards.
7. Educational displays are not to exceed a standard commercial 3'x 4' tri-fold display board. No card board table exhibits will be allowed. Care should be taken to use durable materials that will withstand Kansas State Fair conditions.
8. "Construction Kits" that are part of Educational displays must be contained in cases (tackle boxes, sealable containers, etc.) that may not be larger than 1' X 2' X 2' and must have a latch which securely keeps all components contained in the "Construction Kits". Other components are to adhere to appropriate dimensions as stated elsewhere.
9. Educational Project notebooks must be organized in a 3-ring binder.
10. Educational posters must be no larger than a 20" X 30" poster board. Exhibitors are encouraged to laminate all posters and diagrams or cover them with clear plastic film. Any three dimensional display exhibits may not be thicker than 1".
11. Engines and igniters in rockets ARE NOT permitted with the exhibit and constitute an immediate disqualification. This is for safety reasons and includes both spent and live engines.
12. Exhibitor's name, county or district, age, and year(s) in project must be tagged or labeled in a prominent location on the educational display, notebook, "Construction Kit," and/or poster.
13. Exhibits should possess the following qualities (in no particular order):
  - a. A Central theme
  - b. What you want others to learn
  - c. Be designed and constructed in a manner befitting the exhibit
  - d. Be something you are interested in
  - e. Be related to model or high power rocketry
  - f. And those characteristics described above.

### Astronomy

- 5502 Astronomy Educational Display
- 5503 Astronomy Educational Notebook
- 5504 Astronomy Educational Poster

### Rocketry Division F – Exhibitors 7 through 13 years old

- 5522 Rocketry Educational Display
- 5523 Rocketry Notebook
- 5524 Rocketry Poster Board

### Rocketry Division G – Exhibitors 14 years and older

- 5531 Rocketry Educational Display
- 5532 Rocketry Notebook
- 5533 Rocketry Poster Board

### **Robotics Division A - Novice – One to Two Years in Robotics Project**

- 5508 Robotics Educational Display
- 5528 Robotics Educational Notebook
- 5529 Robotics Educational Poster

### **Robotics Division B – Intermediate – Three to Four Years in Robotics Project**

- 5512 Robotics Educational Display
- 5536 Robotics Educational Notebook
- 5537 Robotics Educational Poster

### **Robotics Division C – Professional – Five or More Years in Robotics Project**

- 5516 Robotics Educational Display
- 5538 Robotics Educational Notebook
- 5539 Robotics Educational Poster

### **Robotics Division D – Team Robotics Project**

- 5518 Team Robotics Educational Display
- 5540 Team Robotics Educational Notebook
- 5541 Team Robotics Educational Poster

### **Computers**

- 5587 Computer Educational Poster
- 5588 Computer Display Board
- 5589 Computer Notebook

### **Unmanned Aerial Systems**

- 5594 Unmanned Aerial Systems Educational Poster
- 5595 Unmanned Aerial Systems Display Board
- 5596 Unmanned Aerial Systems Notebook

### **SWINE**

**Judging Date: Friday, July 20 at 8:00 a.m.**

Read Rules for **4-H & FFA General Rules**

1. Each exhibitor is limited to not more than two entries in any particular class.
2. Livestock exhibitors must be on hand to exhibit animals. In case exhibitor has two in the same class, the 4-H member or FFA member may ask another Neosho county member to assist him/her, provided it meets with the approval of the superintendent of the department.
3. In classes with only one exhibitor, the judge reserves the right to place the animal in the ribbon group they see fit.
4. All livestock exhibitors will have an entry card with them upon entering the show arena. Livestock will be placed: Purple – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Blue – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>; Red – 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, etc.
5. Market Hog classes will be judged by weight classes. First and second place in each eligible weight class will show for grand and reserve champion. They will be divided into classes in numbers suitable for judging.
6. Only gilts or barrows can be shown as market hogs.
7. The following classes will be provided for the breeding class: Duroc, Hampshire, Yorkshire, Spotted Swine, and other Standard Breeds, and Crossbred. Animals may not show in both breeding and market classes.

### **Market Hog**

You must own feed and manage one or more purebred, crossbred or grade feeder pigs during the fattening period. Pigs must be owned a minimum of 90 days before the fair. Market hogs must be farrowed on or after January 1<sup>st</sup> of the current year and must weigh between 225-300 pounds to be eligible to show for grand or reserve champion and to sell in the premium sale.

- 1530. Market Hog

### **Breeding Swine**

You must own, feed and manage one or more purebred or crossbred gilts or sows for at least 90 days before the fair. Breed Association programs should be followed as to care and management of the project. Record will be kept on fall farrowed litters as well as spring farrowed litters.

- 1531. Breeding Gilts
- 1532. Sow

### **Swine Showmanship**

All exhibitors in swine classes are eligible to enter. Age is determined as of January 1<sup>st</sup> of the present year.

- 1535. Senior Division, 14 and over
- 1536. Intermediate Division, 10-13 years
- 1537. Junior Division, 7-9 years



## **VISUAL ARTS (Arts & Crafts)**

**Judging Date: Thursday, July 19 @ 1:00 p.m. -3:00 p.m.**

Read Rules for [4-H & FFA General Rules](#)

- All pictures/drawings **MUST** be framed or mounted on foam board.
- All pictures/drawings **MUST** be able to hang on peg board hooks (i.e. must have wire/metal handle, attached wood lathe/board and wire, etc.)
- Limited to 10 entries.
- There is not a limit on how many entries can be made in each class.
- All Arts & Crafts exhibits will be displayed.

### **Visual Arts**

- 5001. Crafts
- 5002. Sketching, Drawing, Painting, Sculpting
- 5003. Ceramics
- 5004. Scrapbooking
- 5005. Club Historian Book for display only

### **WELDING**

Read Rules for Junior Division

1. Each exhibitor is limited to one article.
  2. The plan from which it was constructed must be attached to the article exhibited. Each article must be accompanied by the plan, blueprint, working drawing, sketch, etc., used for construction. The plan may be photocopy, the actual pattern, or a scale drawing. The plan must be complete and accurate to the extent that a duplicate article could be built using the plan as a guide. Any project with missing or insufficient plans will be lowered one ribbon placing.
  3. Label each article showing intended use.
  4. Judging will be based on workmanship. Including accuracy to the plan; design, choice of wood, suitability and quality of finish and usefulness.
2024. 13 and under  
2025. 14 and over

### **WILDLIFE**

Read Rules for [4-H & FFA General Rules](#)

Types of exhibits in this division are open to educational or creative displays, educational posters or notebooks. 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 open season may be used. The use of live wild animals in education exhibits is prohibited. The display might include different flies the exhibitor has, or different fish found in the exhibitor's county. Your notebook may be a journal showing habitat development, bird watching tips, information on endangered species or any in depth study in the wildlife area.

- 2033. Notebook. Contents pertain to some phase, results, story or information about the wildlife project.
- 2034. Educational Poster. Must be related to something learned in the wildlife project (poster board or foam board no larger than 22"x28")
- 2035. Educational Display. Must be related to the wildlife project. Maximum tri-fold size 3'x4'.
- 2036. Taxidermy/Tanning Exhibit. Should include an attachment that shows the work in progress through photos with captions, or a detailed journaling of the process.

### **WOODWORK**

Read Rules for [4-H & FFA General Rules](#)

1. Each exhibitor is limited to one article in each class.
  2. The plan from which it was constructed must be attached to the article exhibited. Each article must be accompanied by the plan, blueprint, working drawing, sketch, etc., used for construction. The plan may be photocopy, the actual pattern, or a scale drawing. The plan must be complete and accurate to the extent that a duplicate article could be built using the plan as a guide. Any project with missing or insufficient plans will be lowered one ribbon placing.
  3. Label each article showing intended use.
  4. Judging will be based on workmanship. Including accuracy to the plan; design, choice of wood, suitability and quality of finish and usefulness.
  5. Indicate name of article entered in each class.
1914. Any article made from a kit  
1915. Article for farm or shop use  
1916. Lawn furniture, large  
1917. Lawn furniture, small  
1918. Household furniture, large  
1919. Household furniture, small  
1920. Other woodwork articles (ex. bird houses, bird feeders, household equipment such as knife racks, bread boards, door stops.)  
1921. Piece of repaired and refinished furniture with brief explanation of work completed and attached to exhibit. (Class #1921 open to those who have qualified under either woodwork or home improvement project.)

### **Vocational Agriculture & Industrial Arts & Farm Mechanics Exhibit**

Read General Rules and Rules for [4-H & FFA General Rules](#)

1. Farm Mechanics Projects must have been completed by student in the previous school year.
2. Each student exhibitor must have prior approval of his Vocational Agriculture or Industrial Arts Instructor.
3. To be judged on the basis of size, usefulness, workmanship, variety or skill involved and accuracy.
4. Ribbons will be given to individual and chapter displays.
5. Plaques will be awards to the grand and reserve champion individual exhibit.

## Individual Exhibits

All Farm Mechanics projects completed in the vocational Agriculture Shop during the past year are eligible if the above rules are met. Individual projects will be judged on the Danish System and all projects will be placed in one class with each project judged on its own merit.

### F.F.A. Chapter Displays

Chapter must have met at least four pieces of equipment on display. If more than four, the chapter must designate which four is to be judged for chapter display. Ribbons and prizes will be awarded as follows: \$25.00, \$15.00, \$10.00 to the chapters.

## 2018 AWARD DONORS

Champion Market Steer Bank of Commerce – Erie	Reserve Champion Meat Goat Showman, Senior Division Sami Clements
Reserve Champion Market Steer Farm Bureau Insurance	Champion Meat Goat Showman, Intermediate Division Isle Fencing
Champion Feeder Beef Frontier Farm Credit	Reserve Champion Meat Goat Showman, Intermediate Division Shaun/Leslie Summervill
Reserve Champion Feeder Beef Duling Show Pigs	Champion Meat Goat Showman, Junior Division Ray's Trophies & Awards
Champion Beef Female SEK Genetics, Dr. Don Coover	Reserve Champion Meat Goat Showman, Junior Division Shyanne Dunn
Reserve Champion Beef Female Johnson & Son Farm	Over-All Meat Goat Showman Tweeds Double D Ranch
Champion Bucket Calf Interview Jeré/Patsy Wells	Champion Mare Joe/Sondra Harris
Reserve Champion Bucket Calf Interview Cody/Cheyenne Fowler	Reserve Champion Mare Mike/Brenda Elsworth
Champion Bucket Calf Showman Jeré/Patsy Wells	Champion Gelding Joe/Sondra Harris
Reserve Champion Bucket Calf Showman David/Pam Harris	Reserve Champion Gelding Eric Dillinger Memorial
Champion Beef Showman, Senior Division Bartholomew Family Cattle	Performance Champion, Senior Division Community National Bank
Reserve Champion Beef Showman, Senior Division Randy Brown's Heat & Air	<b>Performance Champion, Intermediate Division Cleaver Farm &amp; Home</b>
Champion Beef Showman, Intermediate Division Willing Worker 4-H Club	Performance Champion, Junior Division DM&D Milk Haulers
Reserve Champion Beef Showman, Intermediate Division R&F Farm Supply	Champion Horse Showman, Senior Division Adam/Brad Harris
Champion Beef Showman, Junior Division Erie Locker	Reserve Champion Horse Showman, Senior Division Jeff/Tonya Fowler
Reserve Champion Beef Showman, Junior Division Jeff/Tonya Fowler	Champion Horse Showman, Intermediate Division Justin/Rachele Cosby
Over-All Beef Showman Tweeds Double D Ranch	Reserve Champion Horse Showman, Intermediate Division Willing Worker's 4-H Club
Champion Dairy Cow <b>Tyson/Marianne Watts</b>	Champion Horse Showman, Junior Division Robert E Barker, Lawyer
Over-All Dairy Showman Bank of Commerce	Reserve Champion Horse Showman, Junior Division R&F Farm Supply
Over-All Dog Obedience Jolly Go Getters 4-H Club	Over-All Horse Showman Bank of Commerce
Champion Dog Showman, Senior Division Byron/Renae Wade	Champion Poultry-Game Birds R&F Farm Supply
Champion Dog Showman, Intermediate Division Byron/Renae Wade	Champion Poultry-Water Fowl R&F Farm Supply/Johnson & Son Farm
Champion Dog Showman, Junior Division Byron/Renae Wade	Champion Poultry-Bantams Gary/Rhonda Hawkinson
Over-All Dog Showman Sami Clements	Champion Poultry-Large Fowl Gary/Rhonda Hawkinson
Champion Meat Goat Breeding Doe Carlie Almond Memorial	Grand Champion Rabbit Steve/Trudi Cooper
Reserve Champion Meat Goat Breeding Doe Commercial Bank – Erie	Reserve Champion Rabbit Isle Fencing
Champion Market Meat Goat Tiffany Dillow-Buchanan	Champion Rabbit Showman, Senior Division Tony's Function Junction
<b>Reserve Champion Market Meat Goat Westhoff Interiors</b>	Champion Rabbit Showman, Intermediate Division Andrea Gough
Champion Meat Goat Showman, Senior Division Hastings Family	Champion Rabbit Showman, Junior Division Cedar Lodge 103, Chanute

Champion Market Lamb Dale Cox Memorial	1 <sup>st</sup> Individual Livestock Judging, Senior Division Best Yet 4-H Club
Reserve Champion Market Lamb Amber Brazle- Fischbach Memorial	2 <sup>nd</sup> Individual Livestock Judging, Senior Division Frank/Kathy Brazle
Champion Breeding Ewe Community National Bank	3 <sup>rd</sup> Individual Livestock Judging, Senior Division Loy/Janis Reinhardt
Reserve Champion Breeding Ewe Commercial Bank – Erie	1 <sup>st</sup> Individual Livestock Judging, Intermediate Division Taylor & Sons Angus
Champion Sheep Showman, Senior Division Alan Cox Family	2 <sup>nd</sup> Individual Livestock Judging, Intermediate Division Taylor & sons Angus
Reserve Champion Sheep Showman, Senior Division Steve/Trudi Cooper	3 <sup>rd</sup> Individual Livestock Judging, Intermediate Division Taylor & Sons Angus
<b>Champion Sheep Showman, Intermediate Division</b> <b>Westhoff Interiors</b>	1 <sup>st</sup> Individual Livestock Judging, Junior Division Mark Neely Family
Reserve Champion Sheep Showman, Intermediate Division Commercial Bank – Erie	2 <sup>nd</sup> Individual Livestock Judging, Junior Division Mark Neely Family
Champion Sheep Showman, Junior Division Jenell Cox	3 <sup>rd</sup> Individual Livestock Judging, Junior Division Mark Neely Family
Reserve Champion Sheep Showman, Junior Division Andrea Gough	1 <sup>st</sup> Individual Family Consumer Science Judging, Senior Division Best Yet 4-H Club
Over-All Sheep Showman Bank of Commerce	2 <sup>nd</sup> Individual Family Consumer Science Judging, Senior Division Frank/Kathy Brazle
Champion Market Hog Bartholomew Family Cattle	3 <sup>rd</sup> Individual Family Consumer Science Judging, Senior Division Loy/Janis Reinhardt
Reserve Champion Market Hog Sailors Stock Farm	1 <sup>st</sup> Individual Family Consumer Science Judging, Intermediate Division Neosho Memorial Regional Medical Center
Champion Breeding Gilt Jack Cheyney Memorial	2 <sup>nd</sup> Individual Family Consumer Science Judging, Intermediate Division Neosho Memorial Regional Medical Center
Reserve Champion Breeding Gilt Garrett/Heather LaRue	3 <sup>rd</sup> Individual Family Consumer Science Judging, Intermediate Division Neosho Memorial Regional Medical Center
<b>Champion Swine Showman, Senior Division</b> <b>Westhoff Interiors</b>	1 <sup>st</sup> Individual Family Consumer Science Judging, Junior Division Cedar Lodge 103
Reserve Champion Swine Showman, Senior Division Duling Show Pigs	2 <sup>nd</sup> Individual Family Consumer Science Judging Junior Division Bart/Lisa Chaney
Champion Swine Showman, Intermediate Division Raymond Friederich Memorial	3 <sup>rd</sup> Individual Family Consumer Science Judging, Junior Division Joe/Lori Shue
Reserve Champion Swine Showman, Intermediate Division Meadowlark 4-H Club	1 <sup>st</sup> Individual Photography Judging, Senior Division Snap Shots by Kelly, Kelly Harvey
Champion Swine Showman, Junior Division Raymond Friederich Memorial	2 <sup>nd</sup> Individual Photography Judging, Senior Division Cedar Lodge 103
Reserve Champion Swine Showman, Junior Division Brenda Thornton	3 <sup>rd</sup> Individual Photography Judging, Senior Division <b>Top Hat Cleaners</b>
Over-All Swine Showman Tweed's Double D Ranch	1 <sup>st</sup> Individual Photography Judging, Intermediate Division Bart/Lisa Chaney
Champion Rate of Gain Feeder Beef Hastings Family	2 <sup>nd</sup> Individual Photography Judging, Intermediate Division Cedar Lodge 103
Champion Rate of Gain Market Lamb Buntin Auction Service	3 <sup>rd</sup> Individual Photography Judging, Intermediate Division Neosho Memorial Regional Medical Center
Champion Rate of Gain Market Steer DeGeer Gelbvieh	1 <sup>st</sup> Individual Photography Judging, Junior Division Chad/Crissie Babcock
Champion Rate of Gain Meat Goat Jolly Jayhawkers 4-H Club	2 <sup>nd</sup> Individual Photography Judging, Junior Division Chad/Crissie Babcock
Champion Beef Herdsman David/Pam Harris	3 <sup>rd</sup> Individual Photography Judging, Junior Division Neosho Memorial Regional Medical Center
Champion Bucket Calf Herdsman Willing Worker's 4-H Club	Creative Fitting & Showing Contest 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> Place Loy/Janis Reinhardt
Champion Horse Herdsman Lee Kernick Memorial	Champion Banner (\$25) <b>Neosho County Community College</b>
Champion Sheep Herdsman Courtney Gericke	4-H Royalty Contest Delbert Angleton Memorial
Champion Swine Herdsman Spielbusch Family	Champion Arts & Crafts Connie Campbell Family
Champion Meat Goat Herdsman Sami Clements	Reserve Champion Arts & Crafts Connie Campbell Family
Champion Round Robin Individual Senior Division Zoanna Bohrer	Champion Fine Arts Randy Brown's Heat & Air
Champion Round Robin Individual Intermediate Division Zoanna Bohrer	Reserve Champion Fine Arts David/Linda Angleton

Champion Ceramics  
Carl's Sales & Service

Reserve Champion Ceramics  
Jolly Jayhawkers 4-H Club

Champion Scrapbooking  
Kerrie Coomes Family

Reserve Champion Scrapbooking  
Connie Campbell Family

Champion Constructed Garment  
Patty Ungles Family

Reserve Champion Constructed Garment  
Sunflower Chapter 147

Champion Constructed Revue  
Associated Professional Services, Inc, Peggy Davidson, Agent

**Reserve Champion Constructed Revue**  
**Producers Co-op Association**

Champion Buymanship – Girls, Senior Division  
William/Jean Cook

Reserve Champion Buymanship – Girls, Senior Division  
Jeré/Patsy Wells

Champion Buymanship – Girls, Intermediate Division  
Jeré/Patsy Wells

Reserve Champion Buymanship – Girls, Intermediate Division  
Hine Law Office

Champion Buymanship – Girls, Junior Division  
**Barbara Heilman**

Reserve Champion Buymanship – Girls, Junior Division  
Sami Clements

Champion Buymanship – Boys, Senior Division  
Randy Brown's Heat & Air

Reserve Champion Buymanship – Boys, Senior Division  
Randy Brown's Heat & Air

Champion Buymanship – Boys, Intermediate Division  
Producers Co-op Association

Reserve Champion Buymanship – Boys, Intermediate Division  
Barbara Heilman

Champion Buymanship – Boys, Junior Division  
D'Angelo's Pizzeria

Reserve Champion Buymanship – Boys, Junior Division  
Stub's Market

**Buying Power Champion**  
**Terrell Farms**

**Champion Energy Management**  
Randy Brown's Heat & Air

Champion Entomology  
Carl's Sales & Service

Champion Floral  
Rose Garden Greenhouse

Champion Foods, Senior Division  
Odense Friends Forever

Reserve Champion Foods, Senior Division  
Bell Family

Champion Foods, Intermediate Division  
Neosho County FCE Council

Reserve Champion Foods, Intermediate Division  
Daniel/Kelly Harvey

Champion Foods, Junior Division  
**Orizon Aerostructures**

Reserve Champion Foods, Junior Division  
Sunflower Chapter 147

**Champion Educational Food Exhibit**  
William/Jean Cook

**Champion Food Gift Basket, Senior Division**  
Neosho County Community College

**Champion Food Gift Basket, Intermediate Division**  
Joe/Lori Shue

**Champion Food Gift Basket, Junior Division**  
Tweed's Double D Ranch

**Champion Cake Decorating, Senior Division**  
**Thyme**

Champion Cake Decorating, Intermediate Division  
Vera Bell

Champion Cake Decorating, Junior Division  
Deanne Vogts

Champion Food Preservation  
Neosho County FCE Council

Champion Fiber Arts  
Loy/Janis Rienhardt

Champion Geology  
Neosho Memorial Regional Medical Center

Champion Horticulture  
Carol's Plants & Gifts

Reserve Champion Horticulture  
Debbie Cox

**Champion Leadership Poster**  
**Westhoff Interiors**

Champion Leadership Notebook  
Ashley Bowman

Over-All Champion Photography  
Total Image

Over-All Reserve Champion Photography  
Jeré/Patsy Wells

Champion Photography, Senior Division  
Hazel Cook Memorial

Reserve Champion Photography, Senior Division  
Loy/Janis Reinhardt

Champion Photography, Intermediate Division  
William Cook Family

Reserve Champion Photography, Intermediate Division  
Loy/Janis Reinhardt

Champion Photography, Junior Division  
Jolly Go Getters 4-H Club

Reserve Champion Photography, Junior Division  
Jolly Go Getters 4-H Club

Champion Reading  
Southeast Sunflowers 4-H Club

Champion Robotics  
Beard Propane Inc

Champion Rocketry  
Tony's Function Junction

Reserve Champion Rocketry  
Jere/Patsy Wells

Champion Unmanned Aerial Systems  
**Joe/Lori Shue**

Champion Computer  
Roger Roles

Champion Shooting Sports  
Robert Angleton Memorial

**Champion Pets**  
**Sami Clements**

Champion Welding  
**Youngs Welding**

Champion Wildlife  
DM&D Milk Haulers

Champion Woodworking  
Joe/Lori Shue

**Reserve Champion Woodworking**  
**Southeast Sunflowers**