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SHORTER MEMORIAL BEEF EXHIBITOR AWARD

Junior Shorter was an influential supporter of Cowley County youth beef programs. He was instrumental in initiating and organizing the Cowley County Classic Beef Show garnering great support from local businesses and supporters. The Cowley County Classic was one of the original and premiere spring beef shows for youth, attracting exhibitors from all over Kansas as well as Oklahoma and Texas.

Cowley County 4-H and the Cowley County Classic Beef Show Committee awards the Junior Shorter Memorial Beef Exhibitor Award annually to recognize a Beef exhibitor with exceptional leadership and herdsmanship skills. Junior believed in the positive life skills and character traits that could be developed in young people through involvement in the Beef project. 4-H/FFA Beef Exhibitors are asked to nominate a peer that possesses the characteristics of integrity, honesty, sportsmanship and good work ethic along with good showmanship/herdsmanship skills. The winner is recognized at the conclusion of the Round Robin Showmanship Contest and the recipient's name is added to a perpetual plaque on display in the Cowley County Extension Office.

To nominate an exhibitor, current 4-H/FFA Beef members should secure a nomination form from a Beef Superintendent or the Cowley County 4-H Fair Office. Nominations are due by Sunday at noon in the 4-H Fair Office.

ED FISHER MEMORIAL LIVESTOCK EXHIBITOR AWARD

Dr. Edwin Fisher was an avid supporter of Cowley County 4-H. He had a special interest in livestock projects and could be found supporting local livestock exhibitors at the Cowley County Fair and spring livestock shows. To honor his memory, Cowley County 4-H volunteers established the Ed Fisher Memorial Livestock Exhibitor Award to recognize a 4-H/FFA Livestock Exhibitor that possesses the character traits of integrity, honesty, sportsmanship and good work ethic along with good showmanship/herdsmanship skills across a variety of livestock areas. The peer-nominated recipient should also display a passion for the livestock industry. The winner is recognized at the conclusion of the Round Robin Showmanship Contest and the recipient's name is added to a perpetual plaque on display in the Cowley County Extension Office.

To nominate an exhibitor, current 4-H/FFA livestock members should secure a nomination form from a Livestock Superintendent or the Cowley County 4-H Fair Office. Nominations are due by Sunday at noon in the 4-H Fair Office.

4-H AND YOUTH DEPARTMENT SCHEDULE

Saturday, July 17

9:00 a.m.

4-H Dog Show, Barn 1

Tuesday, July 6

Pre-entry deadline for all 4-H and FFA entries

Tuesday, July 20

8:30 a.m.

Fashion Revue and Clothing Construction
Judging, Brown Center, Cowley College,
215 2nd Street, Arkansas City

7:00 p.m.

Public Fashion Revue, Brown Center, Cowley
College

Wednesday, July 21

TBA

Horse Show Clean Up, Burden Arena

Saturday, July 24

8:00 a.m.

4-H Horse Show Judging, Burden Arena, Burden

Monday, July 26

6:00 p.m.

Livestock pen set up. **Set up begins at the
show arena.**

Tuesday, July 27

8:00 a.m.

Set up & clean-up for Barn 4; 4-H and Open
Class, Fairgrounds

Wednesday, July 28

7:00-9:00 p.m.

**4-H /FFA Sheep and Goats may arrive, begin
vet- check (must go through vet-check before
entering pens) and weigh (south end of Barn
10)**

Thursday, July 29

8:00 a.m. - 12:00 p.m.

9:00 a.m. - 10:00 a.m.

12:00 p.m.

4-H/FFA Swine may arrive and weigh/check-in

4-H/FFA Beef weighed, Beef Barn

**4-H/FFA Breeding Heifer, Bucket Calf Check-in
deadline**

2:00-3:00 p.m.

Dairy Cattle Check-In

4:00 p.m. - 7:00 p.m.

Check in 4-H/Youth exhibits, 4-H Exhibit Building,
Barn 4; 4-H/Youth sign-up for Conference
Judging

4:30 p.m.

Livestock Exhibitor Meeting, Show Arena

5:30 p.m.

All livestock must be on the grounds

****No livestock other than those entered
for 4-H/FFA exhibition are allowed in the
barns.****

5:30 p.m.

Meat Goat Show, Show Arena

6:00 p.m. - 8:00 p.m.

4-H/FFA Rabbits and Poultry check-in

9:00 p.m.

Beef may tie-out (Thursday only)

10:00 p.m.

4-H Exhibit Building closes, Barn 4

Friday, July 30

8:00 a.m.	4-H/FFA Bucket Calf and Beef judging - Show Arena (Bucket calves will show before Beef)
8:00 a.m.	4-H Exhibit Building opens, Barn 4
8:30 a.m.	4-H Foods check in; Conference Judging - Foods, Food preservation, 4-H Exhibit Building, Barn 4
9:30 a.m.	4-H Conference Judging - Booths/Banners, Notebooks, Project Displays, 4-H Exhibit Building, Barn 4
10:00 a.m.	4-H Poultry & Pigeon judging, Barn 8
11:00 a.m.	4-H Conference Judging - Crops, Horticulture, Floriculture, Terrariums and Forestry, 4-H Exhibit Building, Barn 4
11:00 a.m. - 1:00 p.m.	4-H Food Auction Pre-Sale, Barn 4
1:00 p.m.	4-H Conference Judging – Entomology/Geology, Energy Mgt., Woodworking, Space Tech, Ag Mechanics; Barn 4.
5:15 p.m.	4-H Food Auction, 4-H Exhibit Building, Barn 4
6:00 p.m.	4-H/FFA Sheep Judging, Show Arena
6:00 p.m.	4-H Rabbit Judging, Rabbit Barn
11:00 p.m.	4-H Exhibit Building closes, Barn 4

Saturday, July 31

7:30 a.m.	4-H/FFA Swine Judging, Show Arena
8:00 a.m.	4-H Exhibit Building opens, Barn 4
8:30 a.m.	4-H Conference Judging - Visual Arts, 4-H Exhibit Building, Barn 4
9:30 a.m.	4-H Conference Judging - Fiber Arts, 4-H Exhibit Building, Barn 4
12:00 p.m.	4-H Shooting Sports Booth open, South Grandstands
12:30 p.m.	4-H Cloverbuds Show and Share, Barn 4
12:30 p.m.	4-H/FFA Dairy Cattle Judging, Show Arena
1:00 p.m.	4-H Conference Judging - Photography, 4-H Exhibit Building, Barn 4
2:00 p.m.	4-H'ers meet with livestock superintendents to complete intent to sell cards.
3:00 p.m.	Superintendents meet to assemble livestock sale order, 4-H Fair Office
4:30 p.m.	Dairy Goats Judging, Show Arena
11:00 p.m.	4-H Exhibit Building closes, Barn 4

Sunday, August 1

10:00 a.m.	4-H Sunday at Fairgrounds (ALL LIVESTOCK ACTIVITIES STOP) - Show Arena
1:00 p.m.	4-H Exhibit building opens, Barn 4
1:30 p.m.	Ice Cream Social sponsored by Cowley County Farm Bureau
6:00 p.m.	Round-Robin Showmanship Contest, Show Arena
11:00 p.m.	4-H Exhibit Building closes, Barn 4

Monday, August 2

8:00 a.m.

Registration for 4-H Livestock Judging Contest, Show Arena

8:00 a.m.

4-H Exhibit Building opens, Barn 4

8:30 a.m.

4-H/FFA Livestock Judging Contest, Show Arena

11:00 a.m.

4-H/FFA Challenge of Champions, 4-H Fair Office

1:00 p.m.

4-H/FFA members set up for livestock sale, ShowArena

3:30 p.m.

Bucket calves, poultry, rabbits released

5:00 - 6:30 p.m.

4-H/FFA members set up for buyer's BBQ

6:45 p.m.

BBQ for 4-H/FFA livestock buyers, Picnic Area

10:00 p.m.

4-H/FFA Market Livestock Sale, Show Arena

All livestock exhibits released, must check out with superintendent

10:00 p.m.

4-H Exhibit Building closes, Barn 4

Tuesday, August 3

7:30 - 8:30 a.m.

All other 4-H/Youth exhibits released and fairgrounds clean-up

2021 FAIR CHANGES

****All changes for the 2021 Cowley County Fair are listed in bold throughout this book.**

Local Fair Changes

Sheep will be weighed in at initial tagging for the new rate of gain contest.

Livestock tack may be brought to the fairgrounds and individual stalls set up on Wednesday.

Sheep and Goat check-in/weigh-in will be Wednesday evening.

All livestock trailers will be moved immediately to trailer parking as livestock are unloaded and checked in.

Swine traffic during check-in will travel between the barns and grandstand, unloading on the north side of Barn 6.

Change rabbit check-in to 6-8pm on Thursday.

Bucket Calves will be shown before Beef.

Beef and Meat Goats will be shown in divisions.

Non-sale animals (poultry, rabbits, bucket calves, dairy goats) will be released at 1:00 p.m. Monday.

Change General Livestock Rule #4: Exhibitors are limited to exhibiting a total of 4 head in each specie.

to:

Exhibitors are limited to exhibiting a total of 4 head in each specie. Exception: Beef and Dairy Cattle may exhibit 5 head including Dairy Cow and Beef Cow/Calf pair. However, the Cow or Cow/Calf pairs will not stay at the fair due to space restrictions.

Change Dairy Cattle Rule #3 to: Exhibitor must have owned or leased the dairy animal for a minimum of 100 days before the county fair. All lease, registration and/or transfer papers must be made in the name of the exhibitor and dated no later than June 15 of the current year.

4-H AND YOUTH DEPARTMENT GENERAL RULES

READ ALL RULES BEFORE MAKING ENTRY

Eligibility

1. Exhibitors must be bonafide members of FFA, 4-H Clubs or other youth organizations in the county. All youth participants must be at least seven years of age before January 1 of the current year. Exhibitors should not have reached 19 before January 1 of the current year to be eligible to participate. Exception: Cloverbuds, ages 5-6.
2. Any exhibitor who is found to have tampered with or entered any exhibit that is not eligible or does not abide by the fair rules, will forfeit any awards, premiums and the right to sell in the Market Livestock Sale.
3. An exhibit made in school or during the course of a class may be exhibited only if the 4-H'er is enrolled in that project area.

Pre-Entries

1. Pre-entry for all exhibits is due online by 11:59 p.m., Tuesday, July 6, 2021. ALL ENTRIES MUST BE MADE ONLINE WITH THE OFFICIAL ENTRY LINK THAT WAS PROVIDED FOR EACH EXHIBITOR. For late entries to be accepted, they must be submitted within 72 hours of the published deadline and accompanied with a \$30 fee/exhibitor. Late entries will not be processed without late fee included. Entries received after the 72-hour grace period will not be accepted. Entries may be deleted at fair check-in, but additional entries will not be accepted.
2. Members can exhibit only in the classes or projects in which they are enrolled.
3. Every exhibit entered in competition for prizes must be produced by the Exhibitor during the current (2020-21) 4-H year.

Check-In

1. Sheep and Goats will weigh and check-in Wednesday from 7:00-9:00 p.m. All other species will check in Thursday. Cattle must weigh from 9:00 a.m.-10:00 a.m. Swine may begin weighing at 8:00 a.m. and must be weighed and in place by 12:00 p.m. they arrive. Breeding Heifers and Bucket Calves must check in with the superintendent and be in place by 12:00 p.m. All livestock entries must be on grounds and in place by 5:30 p.m. Thursday, July 29.
2. Non-livestock entries must be checked-in and in place by 7:00 p.m. on Thursday, July 29, unless specified otherwise. Non-livestock exhibits received after 7:00 p.m. Thursday will not be accepted.
3. Pre-printed entry cards will be available at check-in and must be attached to the exhibit at that time. An entry card must be completed for each exhibit and attached directly to the article. Contact the Extension Office for Entomology labels.
4. All exhibits are entered at the individual's risk. The Cowley County Fair Board or Cowley County Extension Council will not be responsible for damage, loss or theft of exhibits.
5. Extension Agents and Superintendents have discretion over the display of exhibits; i.e., Firearms and knives will not be on display.
6. Beginning with the 2011 Cowley County Fair, for the safety of fair exhibitors, livestock and fair attendees, the Cowley County Fair Association has

adopted the NEC Code of 2002. Therefore, all electrical equipment must have a cord with a three wire ground or be double insulated.

Judging

1. All exhibits will be placed by the judges into the purple, blue, red, and white ribbon groups. Exhibits may be disqualified (oversized, overweight, displayed wrong, etc.) and will receive a participation ribbon, but will not be judged.
2. Champions and Reserve Champions may be awarded only to purple ribbon quality exhibits in Barn 4, if quality merits. Livestock awards will be blue ribbon quality.
3. Exhibitors must sign up for Conference Judging appointments during the sign-up period on Thursday, July 29 between 4:00 p.m. – 7:00 p.m. in Barn 4. Exhibitors who do not participate in Conference Judging will be docked one ribbon placing and the corresponding premium. They will be ineligible for Champion or Reserve Champion in that division.
4. Non-Livestock Champions and Reserve Champions will be chosen only from purple ribbon exhibits.

State Fair Qualification

1. Only superior purple award exhibits are eligible for further competition at the Kansas State Fair, unless specified otherwise. Participants must have competed at the Cowley County Fair within the respective division to be eligible to compete at the Kansas State Fair. Age qualification for State Fair participation: 4-H members must be at least 9 and not have turned 19 before January 1st of the current 4-H year.
2. All livestock and large items going to Kansas State Fair will be the responsibility of the individual.

Grievance Procedure

All grievances must be made in writing and must be signed and dated. Such grievances must state plainly the cause of complaint or appeal, and must be submitted to any of the County Extension Agents within 24 hours following the occasion for the grievance, accompanied by a \$25 cash deposit. The deposit will be forfeited if the grievance is overruled.

- Upon receipt of a qualified grievance, the Extension Agent(s) will promptly notify the person against whom the grievance was made, the Superintendent of the department for the class or event, appropriate Fair Board Representatives, and other parties who may have relevant information. The notice will give a time and place for a hearing to address the grievance.
- The hearing committee, authorized to act upon any protest, may consist of, but not limited to the following: Extension Agent(s), Fair Board Representative, Superintendent of Department in question, Project Leader or 4-H Club Leader of the involved parties, appropriate FFA Advisors (if necessary), a 4-H PDC Member, 4-H Council President, and an Extension Council Executive Board Member.
- When a protest is either allowed or denied, the course of action shall be entered in writing, and a copy delivered to the protestant and the person against whom the grievance was made. Premiums and awards will be properly distributed when final decision on the grievance is made. The hearing committee reserves the right to institute further restrictions upon the person/persons upon whom the protest was made.

Check-Out

1. Removal of exhibits prior to published exhibit release times will result in forfeiture of ALL premium monies.
2. Non-livestock Exhibits will be released from 7:30-8:30 a.m. on Tuesday, August 3 unless otherwise specified. If an exhibitor cannot be present, please make arrangements for another club member to pick up the exhibit. The Cowley County Fair Board, Cowley County Extension Council, County Agents or superintendents will not be responsible for exhibits not claimed.

Clean-Up

1. Fair clean-up will be on Tuesday, August 3, 2021.
2. Each livestock exhibitor must clean-up their exhibit area or areas (INCLUDING TIE-OUT AREAS) by 8:30 a.m. or within 2 hours after the loading of the animal.
3. All equipment used for livestock sale and picnic tables shall be put in storage.
4. All bedding shall be removed from buildings and placed in manure pits.
5. All outside livestock tie-up areas (4-H campgrounds) shall be cleaned to a sanitary condition.
6. All trash shall be picked up around all barns, in 4-H campgrounds, 4-H livestock trailer area and sale picnic area.
7. All equipment used for livestock shall be returned to storage areas (sheep, hog, and goat pens, poultry cages, rabbit cages and stands).
8. All barn floors shall be rinsed.
9. Exhibitors are responsible for returning all borrowed panels.
10. Wash racks shall be cleaned to sanitary conditions.
11. All livestock exhibitors, including Rabbits and Poultry, who fail to clean their area will be suspended from exhibiting an animal in that area the next year.
12. Cleaning the roof under the grandstand is NOT a 4-H responsibility.
13. Exhibit display items in Barn 4 shall be returned to storage. Barn 4 shall be swept.

2021 LIVESTOCK HEALTH REQUIREMENTS

State of Kansas

Kansas Department of Agriculture Division of Animal Health

1320 Research Park Drive

Manhattan, KS 66502

Phone: (785) 564-6601 Fax: (785) 564-6778

GENERAL REQUIREMENTS

- All animals are subject to examination by the exhibition staff or their representatives and shall be free of clinical signs of infectious or contagious disease.
- Animals determined by exhibition staff to have not met listed requirements will not be permitted to exhibit.
- Certificate Of Veterinary Inspection (Health Certificate) o Kansas Origin Livestock – Certificate of Veterinary Inspection is not required by Kansas Department of Agriculture – Division of Animal Health (KDA-DAH), but can be required at the discretion of each exhibition event.
- Livestock Originating From Other States – All livestock originating outside of Kansas must meet Kansas import requirements and must have a valid Certificate of Veterinary Inspection.

CATTLE (BEEF, DAIRY) AND BISON

- All cattle and bison must meet the General Requirements.
- Cattle determined by exhibition staff to have lesions of ringworm, warts or infested with mange will not be permitted to exhibit.

Cattle Originating From Other States

- All cattle must have official ID, and ID must be individually listed on the accompanying CVI.

GOATS

In addition to the General Requirements, all goats must be:

- Identified with a registered tattoo or an official USDA premises ID tag (Scrapie tag.) Goats identified with registration tattoos must have legible tattoos and must have registration papers for these animals available for inspection.
- Free of any signs of sore mouth.
- Free of clinical signs of active fungal (ringworm) infection.

Goats Originating From Other States

- All goats must have official ID, and ID must be individually listed on the accompanying CVI.

HORSES

All horses must meet the General Requirements.

- A comprehensive vaccination protocol is recommended, but not required by KDAH.

Kansas Origin Horses – A valid VS Form 10-11 showing evidence of a negative Equine Infectious Anemia (Coggins) test conducted by a state-approved laboratory within 12 months prior to exhibition is recommended, but not required by KDAH.

Horses Originating From Other States must be accompanied by a valid VS Form 10-11 showing evidence of a negative Equine Infectious Anemia (Coggins) test conducted by a state-approved laboratory within 12 months prior to entry into

Kansas. Foals six months of age and younger, accompanying their EIA-negative dams, are exempt from EIA test requirements.

POULTRY

All poultry must meet the General Requirements.

Kansas Origin Poultry

- Kansas continues its designation as a Pullorum-Typhoid (P-T) Clean state.
- All poultry (except waterfowl) are required to show proof of being P-T clean by one of the following:
 - Originate from a certified U.S. Pullorum-Typhoid clean flock
 - Test negative on a P-T test within 90 days of exhibition

Poultry Originating From Other States – All poultry entering Kansas, except waterfowl, must show proof that they are pullorum – typhoid clean by one of the following methods: o All poultry (except waterfowl) are required to show proof of being P-T clean by one of the following:

- Originate from a certified U.S. Pullorum-Typhoid clean flock
- Test negative on a P-T test within 90 days of exhibition

Additionally, out-of-state poultry must have a "Permit to Ship Poultry or Hatching Eggs" issued by the KDAH within the previous year or a permit number issued by the KDAH office within the previous 15 days.

RABBITS

All rabbits must meet the General Requirements.

Rabbits Originating from other States - All rabbits originating outside of Kansas must meet Kansas import requirements and must have a valid Certificate of Veterinary Inspection.

SHEEP

In addition to the General Requirements, all sheep must be:

- Identified with a registered tattoo or an official USDA premises ID tag (Scrapie tag.)
- Free of any signs of sore mouth.
- Free of clinical signs of active fungal (ringworm) infection, including club lamb fungus.

Sheep Originating From Other States

- All sheep must have official ID, and ID must be individually listed on the accompanying CVI.

SWINE

All swine must meet the General Requirements.

Swine Originating From Other States must also meet one of the following:

- All swine must have official ID, and ID must be individually listed on the accompanying CVI.
- All swine must obtain an import permit number prior to movement into Kansas

LIVESTOCK

GENERAL LIVESTOCK RULES

1. Exhibitors must be bonafide members of FFA, 4-H Clubs or other youth organizations in the county. All youth participants must be at least seven years of age before January 1 of the current year. Exhibitors must not have reached 19 before January 1 of the current year to be eligible to participate.
2. All market livestock species must have been tagged and/or weighed at the official spring county weigh/tag day as set by the Cowley County Extension Office.
3. Pre-entry for all exhibits is due online by 11:59 p.m., Tuesday, July 6, 2021. ALL ENTRIES MUST BE MADE ONLINE WITH THE OFFICIAL ENTRY LINK THAT WAS PROVIDED FOR EACH EXHIBITOR. For late entries to be accepted, they must be submitted within 72 hours of the published deadline and accompanied with a \$30 fee/exhibitor. Late entries will not be processed without late fee included. Entries received after the 72-hour grace period will not be accepted. Entries may be deleted at fair check-in, but additional entries will not be accepted.
4. **Exhibitors are limited to exhibiting a total of 4 head in each specie. Exception: Beef and Dairy Cattle may exhibit 5 head including Dairy Cow and Beef Cow/Calf pair. However, the Cow or Cow/Calf pairs will not stay at the fair due to space restrictions.**
5. Entries must be made in every Class in which an animal is to be shown as an individual, except in the case of champions. No animal can be entered in more than one individual Class and an exhibitor can show only two animals in any one Class.
6. Weigh-in for Beef, Swine, Meat Goats and Sheep will be as follows:
Meat Goats and Sheep: begin at 7:00 p.m. Wednesday- Sheep/Goat Barn
Beef: 9:00 a.m. - 10:00 a.m. Thursday - Beef Barn
Breeding Beef and Bucket Calves must check in with superintendent by noon.
Swine: may begin as swine arrive, no earlier than 8:00 a.m. Thursday-Swine Barn
7. Exhibits must be in place by 5:30 p.m., Thursday, July 29, unless specified otherwise. All livestock exhibits will be released at 10:00 p.m. on Monday. Exception: buckets calves, poultry and rabbits will be released at 1:00 p.m.
8. Exhibitors will be awarded premium money only one time on each animal entered.
9. For all entries in livestock breeding classes, the exhibitor will be required to show the name, date of birth and registry number (if required) of animal to superintendent(s) at check-in.
10. No animal that is shown in the market class will be eligible to show in the breeding class, or no animal shown in the breeding class will be eligible to show in the market class.
11. Members shall be on hand to exhibit their entries. Failure without just cause (i.e. participation in other 4-H/Youth activities) or due to unforeseen circumstances will result in exhibitor forfeiting the right to participate in the livestock sale. In case an exhibitor has more than one entry in the same class, another Cowley County 4-H/FFA member may assist the exhibitor.
12. Exhibitors must show their own animal in showmanship. Showing another family member's animal in showmanship will not be allowed.

13. Any person making a false entry or misrepresenting his animal as to age, registration or in any other manner, will forfeit any prize that may have been awarded and will be excluded from all competition.
14. In the Livestock, Rabbit and Poultry Divisions, each exhibitor must clean, water and feed their exhibits by 9:00 a.m. All livestock exhibits must be in place in the barns by 8:30 a.m. Livestock exhibits shall remain in the exhibit area until 10:00 p.m. each day of the fair and be kept in a sanitary condition at all times. Cattle may tie-out at 9:00 p.m. Thursday. Any type of physical abuse to an animal or failure to keep animals fed, watered and clean will result in loss of premium money or immediate expulsion from the fair, depending on the severity of the abuse. Any person witnessing an abuse should notify one of the following: Superintendent, County Extension Agent(s), or Cowley County Fair Office. A committee of two superintendents, one Extension Agent and two Fair Board members will act on the alleged abuse.
15. Fair superintendents reserve the right to combine and divide classes as they see fit.
16. Changes to show classes will not be allowed within 2 hours of the show beginning.
17. All blankets must be removed from livestock during the visiting hours at the fair after animals have been shown.
18. No straw allowed. Bedding will be furnished by Fair Association.
19. In cases where special prizes are offered by commercial organizations, individuals or breed associations, it is up to the exhibitor to claim these prizes. The Fair Association will not be responsible for notifying either the exhibitor or the organizations offering the special prizes.
20. The superintendent of each division in the livestock department will assign all space or stalls, and shall have full authority to move or rearrange exhibits when, in their judgment, it becomes necessary. Exhibitors must have a stall card in place above each pen or stall.
21. Each livestock exhibitor must clean their exhibit area(s) by 8:30 a.m. Tuesday morning. It is expected that each exhibitor is responsible for cleaning their own area.
22. EXHIBITORS REMOVING ENTRIES PRIOR TO OFFICIAL RELEASE TIME WILL FORFEIT ALL PREMIUM MONEY.
23. All livestock will be groomed, fitted and cared for show by the exhibitor. Cooperation between exhibitors and family members is encouraged. ABSOLUTELY no professional groomers.
24. Market Hogs must weigh 230 to 290 pounds, Market Lambs must weigh a minimum of 95 Pounds, Meat Goats must weigh a minimum of 50 pounds and Market Steers and Market Heifers must weigh a minimum of 1,050 pounds.
25. There will be no re-weigh for livestock. The first weight will be the official weight. NO EXCEPTIONS!
26. Each species' show schedule will be at the discretion of the superintendent(s).
27. **Poultry, rabbits, bucket calves and dairy goats will be released at 1:00 p.m. Monday.** All other livestock will be released from the fair from 10:00 p.m.-midnight on Monday. EXHIBITORS MUST CHECK-OUT WITH THE SUPERINTENDENT MONDAY NIGHT AND SIGN-IN WITH THE SUPERINTENDENT ON TUESDAY FOR FAIR CLEANUP.

28. Tag change policy: When an animal loses a tag, the exhibitor must contact the Cowley County Extension Office in writing as soon as said tag is noticed to be missing. Include the following information: Specie, previous tag number, breed, sex of animal and statement verifying that the animal is the same animal that was tagged at the official tagging day. Ear tags that are lost after the pre-entry deadline must still be submitted in writing to the Extension Office, but will be handled on a case by case basis.
29. A showmanship contest will be held for all species during the appropriate show. Classes may be combined. No premiums will be awarded. Showmanship age division is based on age of exhibitor before January 1 of the current 4-H year. Senior: 14 years of age and over, Intermediate: 10-13, Junior: 7-9.
30. Only SENIOR division champion and reserve champion showmen in Beef, Sheep, Swine, Meat Goats, Dairy Cattle, Dairy Goats, and Horse are eligible to compete in the Round Robin Showmanship contest. Exhibitors must show the animal they qualified with in that species' showmanship. Showing another family member's animal in showmanship will not be allowed.
31. Bred and Owned classes are offered in the Dairy Cattle and Dairy Goat Divisions. To comply with the definition of "Bred and Owned", the animal must be the offspring of a dam owned by the 4-H member prior to breeding, during the gestation period, and after the birth of the animal.
32. Ownership deadline for all breeding livestock is **May 1** of the current 4-H year.
33. Herdsmanship judging for beef cattle, sheep, swine, goats, bucket calves, dairy cattle, rabbits, and poultry will be held on Friday, Saturday, Sunday and Monday of the fair and will be in accordance with following scorecard:

Herdsmanship Scorecard

- A. COOPERATIVE EFFORT..... 20 points
 1. Willingness to cooperate with show management.
 2. Courtesy and willingness to follow rules.
 3. General courtesy to the public.
 4. Neat appearance of exhibits.
- B. ANIMALS..... 30 points
 1. Animals tied or stalled for best effect.
 2. Animals kept properly fitted.
 3. Animals adequately bedded.
 4. Animals fed and watered regularly.
- C. STALLS AND AISLES..... 50 points
 1. Aisles kept free and clean for spectators use.
 2. Exhibit cards neatly displayed.
 3. Feed kept in feed areas.
 4. Equipment kept in show boxes.
 5. Stalls kept clean, neat and dry.
- TOTAL POSSIBLE PER DAY..... 100 points

At the conclusion of the fair, all daily scores will be totaled and cash awards will be presented to the top three clubs/chapters as follows: 1st-\$25, 2nd-\$15, 3rd-\$10

34. ALL LIVESTOCK WILL BE SUBJECT TO DRUG TESTING. Any drug-related problems involving livestock shall result in the banishment of exhibitor and

immediate family from all future Cowley County Fair livestock exhibits and any refusal and/or failure to cooperate with the Cowley County Fair Association during testing will result in disqualification and banishment.

35. Exhibitors who fail to properly feed, water, and/or care for their animals shall forfeit premium money and will not be allowed to exhibit that specie of livestock at the Cowley County Fair the following year.
36. Beginning with the 2011 Cowley County Fair, for the safety of fair exhibitors, livestock, and fair attendees, the Cowley County Fair Association has adopted the NEC Code of 2002. Therefore, all electrical equipment must have a cord with a three wire ground or be double insulated. Fans for livestock must be inspected prior to use at the Cowley County Fair. Box fans do not meet these requirements.
37. At the discretion of the superintendents, livestock will be used for the Livestock Judging Contest.
38. Livestock exhibitors must complete the wholesome meat statement included with online pre-entry.
39. Clean up will not begin until 11:30 p.m. Monday night, or after all base bid animals have been loaded.

MARKET LIVESTOCK SALE

Auction Clerk - Edw. B. Stephenson & Co., CPA

Monday, August 2, 2021 - 6:45 p.m.

Cowley County Fairgrounds

1. The 4-H and FFA Market Livestock Sale will be for Market: Beef, Swine, Sheep, Goat and Rabbit Meat Pen only.
2. The sale order for 2021 will be: Meat Goat, Sheep, Beef, Swine
3. Animals sold through the sale must be exhibited at the Cowley County Fair.
4. Each 4-H and FFA exhibitor can participate in the Market Sale with one animal or rabbit meat pen only, and must exhibit their own animal in the sale ring. Exceptions may be considered for a substitute sale exhibitor with prior written approval prior to fair pre-entry deadline of a majority of the Market Livestock Sale Superintendents and the Cowley County Extension Agents for the following reasons: An official State or National 4-H/ FFA/Agricultural Industry event whereby the exhibitor is a documented officer or committee person.
5. The Market Livestock Sale Committee will announce a base bid on all species prior to the sale to be used only on all market animals sold through the Cowley County Fair. The base bid for all market animals will be subject to discounts for weight ranges according to industry standards. Discounts will be announced prior to the sale.
6. A charge of 3 percent of the total premium value only will be made for all animals. No commission will be charged on the base bid value of the animal. This fee is used to provide a special barbecue honoring buyers and other supporters of the Market Livestock Sale. It also covers advertisements, buyer's ribbons, and supplies.
7. All market livestock will be shown and sold based on official weight at fair weigh-in.
8. Each exhibitor must complete an "Intent to Sell" card for all market animals. This card must be turned in to the species superintendent by **2:00 p.m. on Saturday**. There will be a 3% dock of premium money for cards which are turned in late or marked incorrectly.
9. All animals entering the sale ring will be sold and must be delivered to a state inspected locker plant or to the base bid buyer.
10. Steers must be controlled without use of extra ropes or lariats.
11. 4-H and FFA members selling animals through the sale are expected to feed, water and care for them up until the time they are loaded on the truck.
12. To qualify for the auction, market animals' weight must fall within the following ranges. No shrinkage will be calculated on any animals.
 - Market steers/heifers- minimum of 1,050 pounds
 - Market hogs- 230-290 pounds
 - Market lambs- Minimum of 95 pounds
 - Rabbit meat pen- 3-5 pounds each
 - Market goats- minimum of 50 pounds.
13. The Market Livestock Sale is terminal.

BEEF CATTLE AND BUCKET CALF

Superintendents: Kyle and Angie Ruyle

1. ALL Market Steers and Market Heifers shown at the Cowley County Fair must have been owned, weighed and ear tagged at the official spring weigh-in March 7, 2021. The minimum weight for Market Steers and Market Heifers is 1,050 pounds.
2. All beef and bucket calves must be checked/weighed-in and in place by **12:00 p.m.** Thursday, July 29, 2020. Market Beef must weigh-in from 9:00 a.m. – 10:00 a.m. in the Beef Barn.
3. Health Requirements: Please refer to Kansas Animal Health Department Guidelines, page 10.
4. When animals are not being fed, watered, or in cases of extreme heat, cattle shall remain at the barns.
5. Registered and Commercial Heifers will show in separate classes. All Registered heifers must have registration or transfer papers in the sole name(s) of the exhibitor and dated no later than **May 1** of current year. Heifers may be co-owned and co-registered by two or more 4-H/FFA members of the same family. Registration papers are to be presented at check-in time. Other Breed heifers for which separate Classes are not established that are registered will show in the Registered Other Breeds division. All unregistered heifers will show in the Commercial division and must be accompanied by a Breeding Livestock Affidavit.
6. Each 4-H Club/FFA chapter will stall their beef cattle together. Stall assignments will be made by the superintendents.
7. The Cowley County Fair Beef Show will be a 'No Fit' show. 'No Fit' is defined as using no adhesive, glue, paint or powder products. Violation of this rule will lead to total disqualification of a 4-H/FFA member from the show and all premiums forfeited.
8. Champion and Reserve Champion Market Heifers and Market Steers from each Division will compete for Grand Champion Market Beef and Reserve Champion Market Beef. There will be no Grand/Reserve Champion Market Steer and no Grand/Reserve Grand Champion Market Heifer.
9. Beef exhibitors must notify superintendents by Thursday at 5:30 p.m. where their tie-outs are located.

DIVISION - BUCKET CALF

1. Exhibitor must be 13 years old or younger (before January 1 of the current year).
2. The orphaned or newborn calf may be male or female. It may be beef, dairy or cross.
3. All bucket calves must be calved after January 1 and before May 31 of the current year.
4. The calf must be fed on bucket or bottle.
5. Conference Judging will be used. It will be based on:
 - What the 4-H'er learned about caring for and raising of the calf.
 - The general health of the calf and the knowledge of the 4-H'er in health related areas.
 - Cleanliness
 - What the 4-H'er has learned about fitting and showing.
6. Calves are shown on a halter.

7. The use of show sticks while showing is permitted and is at the discretion of the exhibitor.
8. Bucket calf exhibitors are not eligible for Grand Champion Showman.
9. Classes will be divided at the discretion of the superintendents.
10. Bucket calves are to be at least 60 days of age to be shown.
11. Bucket calves will be released on Monday, August 2, 2021 at 1:00 p.m.
EXHIBITORS MUST CHECK-OUT WITH THE SUPERINTENDENT
MONDAY AFTERNOON AND SIGN-IN WITH THE SUPERINTENDENT ON
TUESDAY FOR FAIR CLEANUP.

Class 0011 - Junior Bucket Calf (Exhibitor age 7-9)

Class 0012 - Intermediate Bucket Calf (Exhibitor 10-13).

DIVISION - BEEF SHOWMANSHIP

Class 0001 - Senior Showmanship (14-18).

Class 0002 - Intermediate Showmanship (10-13).

Class 0003 - Junior Showmanship (7-9).

For more showmanship information, see Livestock General Rules, #29.

DIVISION - MARKET BEEF

The divisions for judging will be based on weight and set at weigh-in. Animals in each division will be divided by weight to make uniform classes and decisions on the division of classes will be made by the superintendents. Market Beef weighing under 1,050 pounds will be reclassified as "Feeder Cattle", will not be eligible for Grand/Reserve Grand Champion and will be ineligible for the Market Livestock Sale.

Class 0004 - Market Beef

DIVISION - BREEDING BEEF

Breeding Heifers must be born after September 1, 2019. Breeds may include: Angus, Charolais, Chianina, Hereford, Limousin, Maine Anjou, Simmental, Shorthorn, AOB and Commercial. Classes will be formed after check-in by breed and birth date. Superintendents may alter or combine classes as they see fit. Breeds listed will be shown in separate classes if numbers warrant.

Class 0005 - Breeding Heifers

DIVISION - COW CALF

1. Cow-calf pairs may arrive the day of the show (Friday, July 30) and will be released following the show.
2. Cow-calf pairs are not eligible for Champion Heifer and cannot be shown in another class if shown as a cow-calf pair.
3. Calf must be most recent natural calf born after January 1, 2020.
4. Cow-calf pair will be considered as a pair when placed by the judge.
5. Pairs must be shown haltered.

Class 0006 - Cow-calf pair (please note breed on entry)

DIVISION - SECOND YEAR BUCKET

The purpose of the Second Year Bucket Calf classes is to allow exhibitors to show their bucket calf project from the previous year against other animals in their peer group.

1. Second Year Bucket Calves must have been exhibited the previous year as a Bucket Calf by the same 4-H member.
2. Calves must be identified by a 4-H eartag.
3. Steers must weigh-in at the county weigh-in designated by the Extension Office.
4. Calves will be shown at halter with a showstick.
5. Calves may be clipped, but will follow "No Fit" rules.
6. Steers and Market Heifers will show against Market Beef and will be eligible to sell in the Market Livestock Sale as long as they reach a minimum weight of 1,050 pounds and are weighed in on July 29.

Class 0007 - Second Year Bucket Calf Steers
Class 0008 - Second Year Bucket Calf Heifers
Class 0009 - Second Year Bucket Calf Market Heifers

DIVISION - BEEF CATTLE GROUP EXHIBIT

Class 0010 - Group of Five Beef Cattle. Must be owned by 3 different individuals belonging to the same club or chapter. Any club or chapter may enter as many groups as possible, but cannot collect more than two cash awards. 1st-\$15; 2nd-\$12; 3rd-\$10; 4th-\$7.50; 5th-\$5; 6th-\$2.50.

BEEF PREMIUMS

Grand Champion	Ribbon
Reserve Grand Champion	Ribbon
Breed Champion	Ribbon
Breed Reserve Champion	Ribbon
Purple/Blue	\$5.00
Red	\$3.00
White	\$2.00

MARKET BEEF RATE OF GAIN CONTEST

1. 4-H/FFA Market Steers must have been weighed on March 7, 2021 at the Winfield Livestock Auction (beginning weight).
2. 4-H/FFA Market Steers must weigh on Thursday, July 29, 2021 at the Cowley County Fairgrounds (ending weight) and must be exhibited at the 2021 Cowley County Fair.
3. Rate of gain will be calculated on all steers which meet criteria 1 - 2 as follows: Average Daily Gain (ADG) = Ending weight - Beginning weight/144 days (March 7-July 29).
4. 4-H/FFA Market Steers which meet requirements 1 - 3 will be ranked (highest to lowest) according to ADG.

SWINE

Swine Committee: Russ and Audrey Gottlob, Eric Enderud, Scott Lowe, Bruce Hafenstein

1. Pigs farrowed before **December 1, 2020**, are not eligible to compete.
2. Pens will be assigned by the swine committee.
3. A minimum of five (5) animals must be entered to form a breed class. Fewer than five animals will be entered in Other Purebred. If fewer than 5 entered in other purebred class animals will be entered in crossbred class.
4. Market Swine will be divided into classes by breed and weight. Breeding Gilts will be divided into classes by breed. Classes will be set at the discretion of show management.
5. Snaring of swine is prohibited.
6. During the swine show, exhibitors will be limited to one helper in the holding area.

DIVISION - SWINE SHOWMANSHIP

Class 0020 - Senior Showmanship (14-18).

Class 0021 - Intermediate Showmanship (10-13).

Class 0022 - Junior Showmanship (7-9).

For more showmanship information, see Livestock General Rules, #29.

DIVISION - MARKET HOG

Breeds may include Berkshire, Duroc, Hampshire, Chester White, Spots and Poland, Yorkshire, Other Purebred, Crossbred. Hogs weighing under 230 pounds will be classified to "Feeder Pigs". Hogs weighing over 290 pounds will be classified at "Overweight Pigs". Overweight and Feeder pigs will be ineligible for Grand/Reserve Grand Champion and the Market Livestock Sale.

Class 0023 - Market Hogs

DIVISION - BREEDING GILTS

Breeds may include Berkshire, Duroc, Hampshire, Chester White, Spots and Poland, Yorkshire, Other Purebred, Crossbred.

Class 0024 - Breeding Gilts

SWINE PREMIUMS

Grand Champion	Ribbon
Reserve Grand Champion	Ribbon
Breed Champion	Ribbon
Breed Reserve Champion	Ribbon
Purple/Blue	\$4.00
Red	\$2.50
White	\$1.00

SHEEP

Superintendents: Greg and Tami Norwood

1. All sheep must have a Scrapie tag, including wethers.
2. Market Lambs will weigh from 7:00 p.m.-9:00 pm. Wednesday. All livestock must be vet checked, on grounds and in place by 10:00 a.m. Thursday, July 29, 2021. A veterinarian will be present to inspect all sheep for general health and presence of fungal lesions at a designated unloading area before entering the sheep barn. Sheep which do not meet general health requirements or are found to be infected with fungal lesions, as determined by the veterinarian, will be sent home and not permitted to show or sell. Any non-lesioned sheep transported on the same vehicle with infected sheep will also be sent home. The decision of the inspecting veterinarian is final. The veterinary inspection will be held from 7:00 p.m. to 9:00 p.m.
3. Health Requirements: Please refer to Kansas Animal Health Department Guidelines, page 10.
4. Market Lambs born prior to Jan. 1 of the current year are ineligible to compete.
5. The basis for determining age of Breeding Sheep is Sept. 1 of the preceding year.
6. Market Lambs will show in the following divisions broken by weight:
 - 4 Black Face Divisions
 - 1 White Face Division
 - 1 Hair Sheep Division
7. Divisions must constitute 4 sheep to show as a division. If not they will be placed into the Black Face Division.
8. At the time of weigh-in and showing, all Market Lambs must be slick shorn with an even length of wool covering above the hock and knee (head and belly excluded). Wool length shall not exceed .2 inch. Market Lambs with excessive or uneven wool will not be weighed in.
9. The use of artificial coloring, except on hooves, is prohibited.
10. Exhibitors who abuse an animal will be barred from showing and will forfeit any premium, ribbon or prize won. The word abuse includes: beating, slapping, using an electric prod or forcing a lamb into a solid object in an attempt to make the animal brace more firmly. Bracing a lamb by holding the front feet off the ground also constitutes abuse.
11. Registered and commercial ewes will be shown in separate classes. Registered ewes must have ear tags/tattoos as required by their respective breed associations. Registration papers must be present at check-in time.
12. Registration or transfer papers for ewes in the breeding class must be in the name of the exhibitor. Breeding Sheep may be owned and co-registered by the exhibitor and members of the immediate family. The flock tag number must match the number on the registration papers.
13. There will be no wool length requirements on breeding ewes.
14. Sheep shall not be fed in pens: they must be fed away from the barn and pens.
15. Do not leave sheep unattended at sheep stands.
16. The first and second place sheep from each division will be brought back for selection of the Grand Champion and Reserve Grand Champion.
17. Open storage of hay and grain in tack pens will not be permitted. Hay and grain must be kept in a tightly sealed container at all times.

DIVISION - SHEEP SHOWMANSHIP

- Class 0030** - Senior Showmanship (14-18)
Class 0031 - Intermediate Showmanship (10-13)
Class 0032 - Junior Showmanship (7-9)

For more showmanship information, see Livestock General Rules, #29.

DIVISION - MARKET LAMB

Market Lambs will show in the following divisions broken by weight: Blackface, White Face, Hair Sheep. Lambs weighing less than 90 pounds will be classified as "Feeder Lambs" and will be ineligible for Grand/Reserve Grand Champion and the Market Livestock Sale.

- Class 0033** - Market Lambs

DIVISION - BREEDING EWES

Breeds may include: Dorset, Hampshire, Suffolk, AOB and Commercial. Registration papers must accompany registered ewes.

- Class 0034** - Ewe Lamb (Born September 1, 2018 or later)
Class 0035 - Yearling Ewe (Born Sept 1, 2017 to August 31, 2018)

DIVISION - GROUP SHEEP EXHIBIT

- Class 0036** - Group of Five Sheep. Must be owned by 3 different individuals belonging to the same club or chapter. Any club or chapter may enter as many groups as possible, but cannot collect more than two cash awards. 1st-\$15; 2nd-\$12; 3rd-\$10; 4th-\$7.50; 5th-\$5; 6th-\$2.50.

MARKET LAMB RATE OF GAIN CONTEST

1. 4-H/FFA Market Lambs must have been weighed on April 27 at the official tagging day (beginning weight).
2. 4-H/FFA Market Lambs must weigh on Wednesday, July 28, 2021 at the Cowley County Fairgrounds (ending weight) and must be exhibited at the 2021 Cowley County Fair.
3. Rate of gain will be calculated on all lambs which meet criteria 1 - 2 as follows: $\text{Average Daily Gain (ADG)} = \frac{\text{Ending weight} - \text{Beginning weight}}{91 \text{ days (April 27-July 28)}}$
4. 4-H/FFA Market Lambs which meet requirements 1 - 3 will be ranked (highest to lowest) according to ADG.

SHEEP PREMIUMS

Grand Champion	Ribbon
Reserve Grand Champion	Ribbon
Breed Champion	Ribbon
Breed Reserve Champion	Ribbon
Purple/Blue	\$4.00
Red	\$2.50
White	\$1.00

DAIRY CATTLE

Superintendent: Becky Henderson, Andy Murphy, Scott Murphy

1. All livestock must be on grounds and in place by 5:30 p.m. Thursday, July 29, 2021.
2. Health Requirements: Please refer to Kansas Animal Health Department Guidelines, page 10.
3. **Exhibitor must have owned or leased the dairy animal for a minimum of 100 days before the county fair. All lease, registration and/or transfer papers must be made in the name of the exhibitor and dated no later than June 15 of the current year.**
4. A cow, in order to be eligible to be shown, must have been owned or leased by the exhibitor as a calf or a heifer.
5. Animals shown in this division may be either purebred or grade, but exhibitors are strongly urged to show purebred animals.
6. In case the number of entries justify, as determined by the superintendent, the heifer and cow classes may be combined or divided as needed.
7. Lactating Dairy Cows are allowed to have hay in their stall.
8. Milking Cow Classes may be brought the day of the show by 10:00 a.m. and released after completion of the Dairy Cattle show. All other dairy cattle entries shall be in place on Thursday at 5:30 p.m.

DIVISION - DAIRY CATTLE SHOWMANSHIP

- Class 0040** - Senior Showmanship (14-18)
Class 0041 - Intermediate Showmanship (10-13)
Class 0042 - Junior Showmanship (7-9)

For more showmanship information, see Livestock General Rules, #29.

DIVISION - DAIRY CATTLE

Breeds: Holstein, Jersey, Milking Shorthorn, Ayrshire, Brown Swiss, Guernsey, AOB

- Class 0043** - Junior Calf born March 1 - June 30 of the current year
Class 0044 - Intermediate Calf born December 1, 2020 - February 28, 2021
Class 0045 - Senior Calf born September 1 - November 30, 2020
Class 0046 - Summer Yearling born June 1 - August 31, 2020
Class 0047 - Junior Yearling born March 1 - May 31, 2020
Class 0048 - Winter Yearling born December 1, 2019 - February 29, 2020
Class 0049 - Senior Yearling born September 1 - November 30, 2019
Class 0050 - Dry Cow, any age
Class 0051 - Junior Two Year Old born March 1 - August 31, 2019
Class 0052 - Senior Two Year Old born September 1, 2018- February 28, 2019
Class 0053 - Junior Three Year Old born March 1 - August 31, 2018
Class 0054 - Senior Three Year Old born September 1, 2017 - February 28, 2018
Class 0055 - Four Year Old Cow born September 1, 2016 - August 31, 2017
Class 0056 - Five Year Old Cow born September 1, 2015 -August 31, 2016
Class 0057 - Aged Cow born before September 1, 2015
Class 0058 - Bred and Owned

DIVISION - GROUP DAIRY EXHIBIT

- Class 0059** - Group of Three Dairy Cattle. Must be owned by 3 different individuals belonging to the same club or chapter. Any club or chapter may enter

as many groups as possible, but cannot collect more than two cash awards. 1st-\$15; 2nd-\$12; 3rd-\$10; 4th-\$7.50; 5th-\$5; 6th-\$2.50.

DAIRY PREMIUMS

Grand Champion	Ribbon
Reserve Grand Champion	Ribbon
Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$5.00
Red	\$4.00
White	\$3.00

HORSE

Superintendent: Angie Krepps, Brayden Krepps
Horse Show

Saturday, July 24, 8:00 a.m.

Entry Time Begins - 7:00 a.m.

Burden Arena, Burden, KS

1. Show regulations, scoring procedures and class requirements will be followed in accordance with the latest edition of the Official Kansas 4-H Horse Show Rule Book (S-37). Copies are available at the County Extension Office or at www.kansas4-h.org.
2. Horse Ownership: Exhibitor or members of their immediate family must have owned the horse prior to May 1 of the current year OR the horse may be leased in accordance with leasing provisions listed in section 1.2 of the 4-H Kansas Horse Show Rule Book. Whether owned or leased, members must have managed the horse at least 75 percent of the time from May 1 through September 30 of the project year.
3. Dress Code: Long pants and a long-sleeved shirt or blouse and western hat must be worn. Pants, shirt and blouses may vary in color. Extremes of style and/or color, while permissible, are not representative of western attire and do not allow the exhibitor to be presented in a professional manner. In no instance shall "fancy" attire count over a nice, neat workman-like appearance.
4. Contestant number to be worn on back of contestant for in-hand classes and on both sides of the saddle pad for riding classes.
5. Exhibitors will be limited to 2 horses.
6. An exhibitor should not be allowed to show a horse which he/she cannot handle. The judge has the right to dismiss an exhibitor from the ring and disqualify him/her if he/she does not have sufficient control of their mount.
7. Mistreatment of horses will NOT be tolerated. Exhibitors will be disqualified immediately if found mistreating an animal. This rule will be enforced. Decisions by superintendent/judge/agent are final.
8. Timed events will start from standing position in arena. No running exits. Over and under ropes, on or off the saddle horn are not permitted. A rider who chooses to wear a western hat which is lost during the run will be given a two-second penalty.
9. The judge's decision is final in all halter, showmanship, and performance classes.
10. No stallions are permitted to be shown.

DIVISION - SHOWMANSHIP

Class 0060 - Senior Showmanship (14-18)

Class 0061 - Intermediate Showmanship (10-13)

Class 0062 - Junior Showmanship (7-9)

Class 0063 - Horseless Horse Showmanship

For more showmanship information, see Livestock General Rules, #29.

DIVISION - HORSE SHOW, HALTER CLASSES

Horses exhibited at halter will enter one of the following two divisions: 1) Stock-Type: includes but not limited to, Appaloosa, Buckskin, Paint, Palomino, Pinto, Quarter Horse; 2) Non-Stock type: includes but not limited to, Arabian, American Saddlebred, Missouri Foxtrotter, Morgan, Tennessee Walking Horse.

- Class 0064 -** Stock Type Geldings (Any Age)
Class 0065 - Non-Stock Type, Miniature and Pony Geldings (Any Age)
Class 0066 - Stock Type Mares (Any Age)
Class 0067 - Non-Stock Type, Miniature and Pony Mares (Any Age)

DIVISION - HORSE SHOW, PERFORMANCE CLASSES

1. An exhibitor may use the same horse in performance classes as in halter classes or the exhibitor may use a different horse.
2. If an age division in English Pleasure or Western Pleasure has less than three (3) entries, two or more age divisions may be combined at the judge's discretion. Horses will show together, but exhibitors will be judged within their respective age division.
3. Horses shown in "Ranch Horse" classes will not be allowed to show in 'Open' classes and vice versa (i.e., a horse shown in Senior Western Pleasure cannot be shown in Ranch Horse Western Pleasure.) "Ranch Horses" shall be working ranch horses that show considerable forward motion, moving out with a natural gait, with a comfortable and natural head set and neck carriage. Excessively slow, low-headed horses will be penalized in Ranch Horse classes.
4. Age divisions for performance classes are based on the age of the exhibitor: Senior, age 14 and over; Intermediate, 10-13; Junior, 7-9. Divisions will be selected with online entry.

- Class 0068 -** English Pleasure
Class 0069 - English Equitation
Class 0070 - Non-Stock/Pony Western Pleasure
Class 0071 - Walk-Trot Western Pleasure (Exhibitor may not compete in any other Western Pleasure class on the same horse)
Class 0072 - Western Pleasure
Class 0073 - Ranch Horse Western Pleasure
Class 0074 - Walk/Trot Western Horsemanship
Class 0075 - Western Horsemanship
Class 0076 - Trail
Class 0077 - Reining
Class 0078 - Pole Bending
Class 0079 - Barrel Racing

HIGH POINT HORSE AWARD

At the conclusion of the horse show, a High Point Award will be presented to an exhibitor in each age division (Jr, Int, Sr). Points will be based on ribbon placings of one horse/one rider combination competing in the 6 following classes: Halter; Showmanship; a Horsemanship or Equitation Class; a Western, Ranch, or English Pleasure Class; Trail; and one speed event. Walk-Trot and Leadline Classes are not eligible to count toward High Point Award. Points are awarded as follows: Champion and Purple - 4 points; Purple/Blue - 3 points; Red - 2 points; White - 1 point. Ties will be broken on highest number of purple ribbons awarded. If no purples are awarded, number of blue ribbons will be used for tie-breakers.

HORSE PREMIUMS

Grand Champion	Ribbon
Reserve Grand Champion	Ribbon
Champion	Ribbon
Reserve Champion	Ribbon

Purple/Blue (Except Classes 0060-0063)	\$3.00
Red (Except Classes 0060-0063)	\$2.00
White (Except Classes 0060-0063)	\$1.00

GRAND CHAMPION SHOWMAN/ROUND ROBIN CONTEST

Superintendents: Jessie Bradley and Sonya Martin

1. The Champion and Reserve Champion Showman from the SENIOR divisions in Beef Cattle, Dairy Cattle, Horse, Sheep, Meat Goats, Dairy Goats and Swine are eligible to compete for Grand Champion Livestock Showman and Reserve Grand Champion Livestock Showman.
2. Participants must show the same animal which qualified them for this event.
3. After an exhibitor is named Champion Senior Showman or Reserve Champion Senior Showman within a division (dairy cattle, dairy goats, beef, sheep, meat goats, horse or swine), they may not qualify in any other species for Grand Champion Showman. Exhibitors may show in subsequent showmanship classes, but will be required to compete in the first division in which they qualified for Grand Champion Showman. In the event that one youth wins two species, the next highest showman will be chosen to compete in the Round Robin.
4. For species with limited Senior exhibitors: Should a Senior contestant elect not to participate in the Round Robin, it will be their responsibility to permit the use of their animal for the purpose of the Round Robin contest. In the event that there is not a contestant from each specie, every effort will be made by species' superintendents to locate animals for use by the exhibitors in the Round Robin.
5. Participants will draw for the animal they will show in each species except the species being shown when they qualified for Round Robin competition.
6. Previous winners of the Grand Champion Showman award at the fair are eligible to compete.

DAIRY GOATS

Superintendent: Monica Rupp

1. All registered Dairy Goats must have a legible tattoo. Grade Dairy Goats must have a Scrapie tag. Questionable tattoos will be moved to Grade class. 4-H members should check tattoos before submitting pre-entries to make sure the tattoo is legible and entered in the correct class.
2. The veterinary inspection will be held from 7:00-9:00 p.m. Wednesday, July 28. All goats must be inspected before entering the pens.
3. Goats which do not meet general health requirements or are found to be infected with fungal lesions, sore mouth, warts, mange and/or intact males as determined by the veterinarian(s) will be sent home and not permitted to show or sell. Any non-lesioned goat(s) transported on the same vehicle with infected goat(s) will also be sent home. The decision of the inspecting veterinarian(s) is final. Health Requirements: Please refer to Kansas Animal Health Department Guidelines, page 10.
4. Exhibitors will be limited to a total of four Dairy Goats
5. Registration papers or stamped duplicates will be required for all animals in the registered or recorded grade classes. Papers must be in the sole name of the exhibitor by May 1 of the current 4-H year if the animal was given to or purchased by the exhibitor. If the animal was born to an animal the exhibitor owned and registered, then ownership would start the day the animal was born and any date of registration up to the show is acceptable as long as registration papers are available at check-in. For those that choose to lease, a doe must be leased by June 1 and a lease form must be turned in by June 1 to the Extension Office showing dates of lease. Registration papers are also required to be shown at check-in for leased registered goats. Grade goats must have a breeding affidavit filled out and turned in to the Extension Office by June 1 as well as provide a copy at check-in.
6. Entries will be placed in Classes by age with the day of the judging being the base date.
7. Exhibitors are requested to be neatly and appropriately dressed (preferably in white) when showing animals.
8. Dairy Goats may have hay in their pens after Friday morning. Hay must be provided in a hay bag away from meat goat pens.
9. Open storage of hay and grain in tack pens is not permitted. Hay and grain must be kept in a tightly sealed container at all times.
10. Milking Doe Classes may be brought by 9:00 a.m. the day of the show and released following the show. All other dairy goat entries shall be in place on Thursday at 7:00 p.m.
11. All dairy does must be disbudded or dehorned.

DIVISION - DAIRY PRODUCTION CONTEST

Exhibitors must milk their goats at 8:00 p.m., Thursday, and also 8:30 a.m., Friday. Weights of milk and time since freshening will determine winners. Does must have kidded after the previous year's fair. Only ribbons will be given.

Class 0080 - Production Contest

DIVISION - DAIRY GOAT SHOWMANSHIP

Class 0090 - Senior Showmanship (14-18)

Class 0091 - Intermediate Showmanship (10-13)

Class 0092 - Junior Showmanship (7-9 years of age)

For more showmanship information, see Livestock General Rules, #29.

DIVISION - DOE CLASSES

Registered breeds will show together; Grade/Recorded Grade will show together.

Note: Grade Dairy Goats are not eligible to be shown at the Kansas State Fair.

"Grade" Dairy Goats are goats without registration papers. Recorded Grade

Dairy Goats are goats with brown registration papers and are eligible to be

shown at the Kansas State Fair.

Class 0093 - Junior Doe, birth and under 5 months

Class 0094 - Junior Doe, 5 months and under 8 months (not in milk and not previously freshened)

Class 0095 - Junior Doe, 8 months and under 12 months (not in milk and not previously freshened)

Class 0096 - Junior Doe, 12 months and under 24 months (not in milk and not previously freshened)

Class 0097 - Senior Doe, up to 24 months (in milk or previously freshened)

Class 0098 - Senior Doe, 24 months and older (in milk or previously freshened)

Class 0099 - Get of Sire Trio (May be any age. At least one goat must be owned by the exhibitor.)

Class 0100 - Mother/Daughter (May be any age. At least one goat must be owned by the exhibitor.)

Class 0101 - Bred and Owned

DAIRY GOAT PREMIUMS

Grand Champion	Ribbon
Reserve Grand Champion	Ribbon
Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$3.00
Red	\$2.00
White	\$1.00

MEAT GOATS

Superintendent: Lacy Colquhoun

1. All goats must have a Scrapie tag, including wethers.
2. The veterinary inspection will be held from 7:00-9:00 p.m. Wednesday, July 28. All goats must be inspected before entering pens. Goats which do not meet general health requirements or are found to be infected with fungal lesions, sore mouth, warts, mange and/or intact males as determined by the veterinarian(s) will be sent home and not permitted to show or sell. Any non-lesioned goat transported on the same vehicle with infected goat(s) will also be sent home. The decision of the inspecting veterinarian(s) is final.
3. Each exhibitor is limited to four (4) head for the Cowley County Fair.
4. Market Goats will be shown by weight in weigh divisions. Divisions will be determined by show management at weigh-in.
5. Market goats must still have their milk teeth. Milk teeth are the bottom two center teeth.
6. Market Goats must be shown shorn (no more than 3/8 inch hair)
7. Horns: Wethers are suggested to be dehorned. If horns are present on does or wethers, they must be tipped and rounded.
8. Market Goats may 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 (3 mm) or smaller pinch collars will be allowed.
9. Market Goats will be permitted to sell in the Market Livestock Sale if minimum weight (50 pounds) is met.
10. Breeding Meat Doe guidelines must be meat type breed (Boer, Spanish, Moyo tonic, Pygmy, Kiko, San Clemente). May be shown with or without horns.
11. No bucks will be allowed to show.
12. No feeding of goats will be allowed in pens. This includes hay and grain.
13. Open storage of hay and grain in tack pens will not be permitted. Hay and grain must be kept in a tightly sealed container at all times.

DIVISION - MEAT GOAT SHOWMANSHIP

- Class 0110 -** Meat Goat Senior Showmanship (14-18)
Class 0111 - Meat Goat Intermediate Showmanship (10-13)
Class 0112 - Meat Goat Junior Showmanship (7-9)

For more showmanship information, see Livestock General Rules, #29.

DIVISION - MARKET MEAT GOATS

Goats weighing under 50 pounds will be classified as "Feeder Goats" and will be ineligible for Grand/Reserve Grand Champion and ineligible to sell in the Market Livestock Sale.

- Class 0113 -** Meat Goat

DIVISION - BREEDING MEAT DOES CLASSES

- Class 0114 -** Breeding Does (Born September 1, 2018 or later)
Class 0115 - Breeding Yearlings (Born Sept 1, 2017 to August 31, 2018)

MARKET MEAT GOAT RATE OF GAIN CONTEST

1. 4-H/FFA Market Meat Goats must have been weighed on April 27 at the official tagging day (beginning weight).

2. 4-H/FFA Market Meat Goats must weigh on Wednesday, July 28, 2021 at the Cowley County Fairgrounds (ending weight) and must be exhibited at the 2020 Cowley County Fair.
3. Rate of gain will be calculated on all lambs which meet criteria 1 - 2 as follows: Average Daily Gain (ADG) = Ending weight - Beginning weight/91 days (April 27-July 28).
4. 4-H/FFA Market Lambs which meet requirements 1 - 3 will be ranked (highest to lowest) according to ADG.

MEAT GOAT PREMIUMS

Grand Champion	Ribbon
Reserve Grand Champion	Ribbon
Breed Champion	Ribbon
Breed Reserve Champion	Ribbon
Purple/Blue	\$3.00
Red	\$2.00
White	\$1.00

POULTRY/PIGEONS

Superintendents: Kimberly McJunkin

1. Variety of bird must be indicated on pre-entry.
2. Young Classes are those hatched after January 1 of the current year. All others are considered "old" for judging purposes.
3. In this division, each member may exhibit a maximum of eight entries with a limit of three per Class. Leg bands are required to ensure proper identification of each entry and may be purchased at the County Extension office.
4. Exhibitors must feed, water, and clean under cages daily.
5. All birds must be checked-in from Thursday from 4:00 p.m. – 7:00 p.m.
6. All pigeons must be single entries.
7. Members may not enter more than two pigeons per Class regardless of breed. Each member is limited to eight birds.
8. All pigeons must be shown with a numbered band. Young birds must be shown with seamless bands, or else judged in the old class. Young birds are those hatched in the calendar year of the show.
9. Judging will be by comparison only using latest standards of the National Pigeon Association.
10. Classes will be offered for all standard breeds approved by the National Pigeon Association. Be sure to designate breed on entry form.

DIVISION - POULTRY CLASSES

- Class 0120 -** Standard Breeds, Large Fowl- 1 young bird of either sex.
Class 0121 - Standard Breeds, Large Fowl- 1 old bird of either sex.
Class 0122 - Standard Breeds, Bantams - 1 young bird of either sex.
Class 0123 - Standard Breeds, Bantams - 1 old bird of either sex.
Class 0124 - Production Pullets-Pen, 3 Standardbred, Crossbred, or Straincross pullets to be judged on egg production qualities only.
Class 0125 - Production Hens-Pen, 3 Standardbred, Crossbred, or Straincross hens to be judged on egg production qualities only.
Class 0126 - Dual purpose pullets-Pen, 3 such as Rhode Island Reds, New Hampshire, Plymouth Rocks, etc.
Class 0127 - Dual purpose hens-Pen, 3 such as Rhode Island Reds, New Hampshire, Plymouth Rocks, etc.
Class 0128 - Meat-type chickens-Pen, 3 Standardbred, Crossbred, or Straincross birds of the same sex to be judged on meat production qualities only.
Class 0129 - Turkeys, all breeds, - 1 bird of either sex.
Class 0130 - Ducks, all breeds - 1 bird of either sex.
Class 0131 - Geese, all breeds - 1 bird of either sex.

DIVISION - PIGEONS CLASSES

- Class 0132 -** Old cock (hatched in previous calendar year)
Class 0133 - Old hen
Class 0134 - Young cock (hatched in this calendar year)
Class 0135 - Young hen

POULTRY & PIGEON PREMIUMS

Grand Champion	Ribbon
Reserve Grand Champion	Ribbon
Breed Champion	Ribbon

Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

RABBITS

Superintendent: Cristine Noland, Lindsay Noland

1. Each member may enter no more than one entry per Class including "Fur Classes."
2. Exhibitor may bring no more than 18 different rabbits.
3. All rabbits are to be legibly tattooed in the left ear for identification before bringing to the show.
4. All rabbits will be divided into age classes and judged according to their breed standard as listed in the ARBA "Standard of Perfection." Crossbred rabbits will be judged on their meat and/or fur production qualities. Crossbred rabbits can only be shown for the 4-H'er's first and second year of the rabbit project and are ineligible for State Fair competition.
5. Pre junior (under 3 months) classes only available in the following breeds: Argente Braun, Beveren, Blanc de Hotot, Californian, Champagne D'Argent, Checkered Giant, American Chinchilla, Giant Chinchilla, Cinnamon, Creme D'Argent, New Zealand, and Palomino. Juniors (under 6 months). Intermediate (6-8 months) classes only available in the following breeds: American, Giant Angora, Argente Braun, Beveren, Blanc de Hotot, Californian, Champagne D'Argent, Checkered Giant, American Chinchilla, Giant Chinchilla, Cinnamon, Crème D'Argent, Flemish Giant, English Lop, French Lop, New Zealand, Palomino, Satin and Silver Fox. Senior, six months of age or over for breeds other than those listed as having Intermediate classes, eight months of age or over for breeds having Intermediate classes.
6. Exhibitors will be responsible for the care, feeding and exhibiting of their own rabbits.
7. Diseased rabbits will be barred from the show.
8. All exhibitors should be on hand to carry their rabbits to the judging table. If this is not possible, please make sure you have another 4-H'er who will do this for you.
9. Rabbits must be owned by exhibitor for 30 days prior to show.

DIVISION - RABBITS

Please specify Breed and Variety when entering.

Class 0140 - Senior buck. Eight months of age and over for breeds with Intermediate classes; six months and over for all other breeds.

Class 0141 - Senior doe. Eight months of age and over for breeds with Intermediate classes; six months and over for all other breeds.

Class 0142 - Intermediate buck. Only breeds listed above with Intermediate classes.

Class 0143 - Intermediate doe. Only breeds listed above with Intermediate classes.

Class 0144 - Junior buck. Under six months of age.

Class 0145 - Junior doe. Under six months of age.

Class 0146 - Pre-junior buck. Only breeds listed above with pre-juniors.

Class 0147 - Pre-junior doe. Only breeds listed above with pre-juniors.

Class 0148 - Meat pen. Three (3) rabbits, all one recognized breed and variety (broken varieties must be same color). Minimum weight 3½ pounds each. Maximum weight 5½ pounds each, and not over 70 days of age. Will be judged on their meat qualities, condition, uniformity and fur.

DIVISION - FUR CLASSES

All rabbits must be shown in their breed class to be shown in fur class. Fur classes will be judged after breed classes.

- Class 0149** - Normal White fur
- Class 0150** - White Satin fur
- Class 0151** - White Rex fur
- Class 0152** - White Angora fur
- Class 0153** - Normal Colored fur
- Class 0154** - Colored Satin fur
- Class 0155** - Colored Rex fur
- Class 0156** - Colored Angora fur

DIVISION - RABBIT SHOWMANSHIP

The rabbit used in showmanship must be entered in the 4-H rabbit show.

- *Class 0157** - Senior Showmanship (14-18)
- *Class 0158** - Intermediate Showmanship (10-13)
- *Class 0159** - Junior Showmanship (7-9)

*Subject to written test at judge's discretion.

RABBIT PREMIUMS

Grand Champion	Ribbon
Reserve Grand Champion	Ribbon
Breed Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

LIVESTOCK SPECIAL AWARDS

The Ed Fisher Livestock Exhibitor Award is a peer nominated award that is awarded annually to the exhibitor who shows the most leadership and knowledge in a variety of livestock projects.

BEEF

The Junior Shorter Memorial Beef Exhibitor Award is sponsored by the Cowley County Classic Beef Show. It is a peer-nominated award that is given annually to an exhibitor who shows outstanding leadership in the Beef Project.

Champion Market Beef Buckle sponsored by Fisher Family Ranch, Dorothy Fisher

Res. Champion Market Beef ... Banner sponsored by Cowley County Farm Bureau

Supreme Champion Heifer ... Buckle sponsored by Mike and Jennifer Legako and Shorter Ranch, Janet Hawkins

Res. Supreme Champion Heifer ... Banner sponsored by Cowley College
Champion Sr. Showman ... Buckle sponsored by Shane and Kianne Prill Family

Res. Champion Sr. Showman ... Banner sponsored by Beau and Tina Bailey

Champion Intermediate Showman ... Buckle sponsored by Winfield Livestock Auction

Res. Champion Intermediate Showman ... Banner sponsored by Depenbusch Machine

Champion Junior Showman ... Buckle sponsored by Orvel and Shirley Mason

Res. Champion Junior Showman ... Banner sponsored by Cowley County Livestock Association

Champion Rate of Gain ... Banner sponsored by Tony and Renee Humbolt

Reserve Champion Rate of Gain ... Banner sponsored by Cowley College

BUCKET CALF AWARD

Champion Bucket Calf Banner sponsored by Cowley College

Reserve Champion Bucket Calf Banner sponsored by Cowley County Farm Bureau Association.

SWINE SPECIAL AWARDS

Champion Market Hog Buckle sponsored by Cowley College

Res. Champion Market Hog ... Banner sponsored by Tatum Farm and Ranch

Champion Gilt ... Buckle sponsored by Tatum Farm and Ranch

Res. Champion Gilt ... Banner sponsored by Tatum Farm and Ranch

Champion Sr. Showman ... Buckle sponsored by Dick and Carol Gottlob

Res. Champion Sr. Showman ... Banner sponsored by Jill Zimmerman

Champion Intermediate Showman ... Buckle sponsored by Cowley College

Res. Champion Intermediate Showman ... Banner sponsored by Beau and Tina Bailey

Champion Junior Showman ... Buckle sponsored by Prill Show Pigs

Res. Champion Junior Showman ... Banner sponsored by Brian and Vickie Thiel

SHEEP SPECIAL AWARDS

Champion Market Lamb Buckle sponsored by Nulik Club Lambs

Res. Champion Market Lamb ... Banner sponsored by Francis and Monica Rupp

Supreme Ewe ... Buckle sponsored by Jim and Jessie Bradley

Res. Supreme Ewe ... Banner sponsored by Chris and Gaye Mackey
Champion Sr. Showman ... Buckle sponsored by Greg and Tami Norwood
Res. Champion Sr. Showman ... Leather Banner sponsored by Gary and Betty Anstine
Champion Intermediate Showman ... Buckle sponsored by Dave and Sonya Martin
Res. Champion Intermediate Showman ... Leather Banner sponsored by Jeff Swanson Farm Bureau Financial Services
Champion Junior Showman ... Buckle sponsored by Cowley County Sheep Show
Res. Champion Junior Showman ... Banner sponsored by Jim and Jessie Bradley
Champion and Reserve Champion Rate of Gain ... Banner sponsored by Gary Miller Family

DAIRY SPECIAL AWARDS

Champion Dairy ... Buckle sponsored by Valley Co-Op
Reserve Champion Dairy ... Banner sponsored by Tatum Farms
Champion Sr. Showman ... Buckle sponsored by Countryside Feed
Reserve Champion Sr. Showman ... Leather Banner Sponsored by Heartland Veterinary Services
Champion Int. Showman ... Buckle sponsored by Bair's LP Gas
Reserve Champion Int. Showman Banner sponsored by Citizens' Bank of Kansas
Champion Jr. Showman ... Buckle sponsored by Cowley County Farm Bureau
Reserve Champion Jr. Showman ... Banner sponsored by Winfield Family Optometry

HORSE SPECIAL AWARDS

Senior High Point Champion ... Buckle sponsored by Covey Find Kennel
Intermediate High Point Champion ... Buckle sponsored by Winfield Saddle Club
Junior High Point Champion ... Buckle sponsored by Winfield Saddle Club
Champion Sr. Showman ... Buckle sponsored by Kim McCullough and Angie Krepps
Reserve Champion Sr. Showman ... Leather Banner sponsored by Cowley College
Champion Int. Showman ... Buckle sponsored by Blair Doon Veterinary Hospital, Dr. Jennifer Jull-Sullivan
Reserve Champion Int. Showman ... Banner sponsored by Blair Doon Veterinary Hospital, Dr. Leslie Mikos
Champion Jr. Showman ... Buckle sponsored by Pirtle Farms
Reserve Champion Jr. Showman ... Banner sponsored by Cowley College
Champion Mare ... Banner sponsored by Depenbusch Machine
Champion Gelding ... Banner sponsored by LaGrone Farm and Ranch

GRAND CHAMPION SHOWMAN AWARDS

Champion ... Buckle sponsored by Wolfe Auto, LLC and director's chair sponsored by Valley Co-Op
Reserve Champion ... Buckle sponsored by Bob and Marian Hedges and director's chair sponsored by Valley Co-Op

DAIRY GOAT SPECIAL AWARDS

Champion Dairy Doe ... Buckle sponsored by Cowley County Farm Bureau Association
Reserve Champion Dairy Doe ... Banner sponsored by Cowley County Farm Bureau Association
Champion Sr. Showman ... Buckle sponsored by Harvest Christian Church
Reserve Champion Sr. Showman ... Banner sponsored by Depenbusch Machine
Champion Int. Showman ... Buckle sponsored by Harvest Christian Church
Reserve Champion Int. Showman ... Leather Banner sponsored by Cowley College
Champion Jr. Showman ... Harvest Christian Church
Reserve Champion Jr. Showman ... Winfield Family Optometry

MEAT GOAT SPECIAL AWARDS

Champion Meat Goat ... Buckle sponsored by Cowley College
Reserve Champion Meat Goat ... Banner sponsored by Feaster's Deer Processing
Champion Meat Doe ... Buckle sponsored by Rockin' A Oil
Reserve Champion Meat Doe ... Banner sponsored by Cowley College
Champion Sr. Showman ... Buckle sponsored by Greg and Tami Norwood
Reserve Champion Sr. Showman ... Banner sponsored by Brett and Becky Brown
Champion Int. Showman ... Buckle sponsored by Seth and Lacy Colquhoun
Reserve Champion Int. Showman ... Banner sponsored by Feaster's Deer Processing
Champion Jr. Showman ... Buckle sponsored by Cowley County Farm Bureau
Reserve Champion Jr. Showman ... Banner sponsored by LaGrone Farm and Ranch
Champion Rate of Gain... Banner sponsored by Cowley County Farm Bureau
Reserve Champion Rate of Gain... Banner sponsored by Cowley County Meat Goat Show

POULTRY/PIGEON SPECIAL AWARDS

Champion Poultry ... Banner sponsored by Bryan and Betty Haunschild
Reserve Champion Poultry ... Banner sponsored by Covey Find Kennel
Champion Pigeon ... Banner sponsored by Cowley College
Reserve Champion Pigeon ... Leather Banner sponsored by Cowley College

RABBIT SPECIAL AWARDS

Champion Rabbit ... Banner sponsored by Cowley College
Reserve Champion Rabbit ... Banner sponsored by Cowley County Farm Bureau Association

FIELD CROPS

Superintendent: Cowley County Extension Master Gardeners

1. Read "General Rules".
2. Products exhibited in this division must have been grown by the 4-H/FFA member in the current year, with the exception of soybean seed.
3. Exhibits should be as mature as possible.
4. Every entry must be identified by hybrid or variety name.
5. All classes calling for a gallon sample may have a 2½ - 3 inch in diameter cylinder placed in a glass gallon container to reduce the amount of grain to about three quarts.
6. Exhibits are to be checked in as they are judged at 11:00 a.m. on Friday.
7. Exhibitors must participate in Conference Judging during the scheduled time. If exhibitors do not participate, they will be docked one ribbon placing, and the corresponding premium.

CORN- TEN EAR EXHIBIT

- Class 0200 -** White. Variety of hybrid must be named.
Class 0201 - Yellow. Variety of hybrid must be named.

SORGHUM- TEN HEAD EXHIBIT

- Class 0202 -** Hybrid grain sorghum. Hybrid must be named.
Class 0203 - Hybrid forage sorghums. Exhibit to consist of the entire plant; no roots. Hybrid must be named.
Class 0204 - Other forage sorghums. Exhibit to consist of the entire plant; no roots. Variety must be named.

WHEAT- ONE GALLON SAMPLE

- Class 0205 -** Hard Red Winter Wheat. Variety or hybrid must be named.
Class 0206 - Hard White Wheat. Variety or hybrid must be named.
Class 0207 - Soft Red Winter Wheat. Variety or hybrid must be named.

OTHER CROPS

- Class 0208 -** Oats. Exhibit to consist of one gallon sample. Variety must be named.
Class 0209 - Barley. Exhibit to consist of one gallon sample. Variety must be named.
Class 0210 - Alfalfa. Exhibit to consist of one gallon sample of seed. Variety must be named.
Class 0211 - Soybeans. Exhibit to consist of one gallon sample of seed from most recent harvest. Variety must be named.
Class 0212 - Soybeans. Bundle of five plants (with roots intact) from most recent harvest. Variety must be named.
Class 0213 - Brome Grass. Exhibit to consist of one gallon sample of seed.
Class 0214 - Other Tame Grass. Exhibit to consist of one gallon sample of seed.
Class 0215 - Alfalfa Hay. Exhibit to consist of one flake or slice from a rectangular bale, or a 10 inch section cut from a round bale. The flake or slice should be approximately 6 inches in thickness and tied in two directions. Variety must be named.
Class 0216 - Grass Hay. Ten inch flake or slice, 6 inches thick and tied in two directions. Variety must be named.

Class 0217 - Other Hay. Ten inch flake or slice, 6 inches thick and tied in two directions. Variety must be named.

Class 0218 - Miscellaneous Crops. Exhibit to consist of one gallon sample of seed or 10 heads produced from current project. Variety must be named.

FIELD CROP PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the food sale and auction.

HORTICULTURE/FLORICULTURE

Superintendent: Cowley County Extension Master Gardeners

1. Read "General Rules".
2. Information about exhibiting produce is available online in the publication "Exhibiting Fruits and Vegetables" available at <http://www.ksre.ksu.edu/bookstore/pubs/c405.pdf>
3. Write the variety of each vegetable on the entry card.
4. Products exhibited in this division must be grown in current club year by members enrolled in the project.
5. Exhibits are to be checked in as they are judged at 11:00 a.m. Friday.
6. Class 0232- Garden Surprise does not require pre-entry. This is an appropriate class to exhibit an unexpected horticulture exhibit (i.e., carrots, onions, odd shaped, etc.)
7. Each exhibitor in Class 0219 Garden Display will be limited to four square feet of space. Exhibits consist of five different fresh vegetables. Canned vegetables are not acceptable. Only one variety of a specific vegetable may be exhibited.
8. All floral materials must be grown and/or collected by the exhibitors. Do not use purchased plant materials. Entries should not take over one square foot of table space.
9. Potted plants are not accepted.
10. Information about exhibiting flowers can be found online in the publication "Preparing Cut Flowers for Exhibit", available at <http://www.ksre.ksu.edu/bookstore/pubs/4H826.pdf>
11. Exhibits are to be checked in as they are judged at 11:00 a.m. Friday.
12. Exhibitor may make a total of two entries per class for Class 0227-0230.
13. Exhibitor must use a non-breakable container for all exhibits in Classes 0227-0230.
14. A 4-H member may exhibit in only eight of the following Classes 0219-0226. Pre-entries will be accepted for more than eight entries, but only eight may be exhibited.

Class 0219 - Garden Display

Class 0220 - Small vegetable specimen plate (12) Ex: green snap beans, yellow wax beans, radishes other small vegetables.

Class 0221 - Medium vegetable specimen plate (5) Ex: cucumbers, cherry tomatoes, tomatoes, beets, white onions, yellow onions, red onions, bell peppers, other peppers, okra, parsnips, radishes turnips, sweet potatoes, red potatoes, white or Russet potatoes, carrots, miniature pumpkin, decorative gourds, or other medium vegetables.

Class 0222 - Large vegetable specimen plate (1) Ex: watermelon, summer squash, winter squash, large type pumpkin, eggplant, cabbage, cantaloupe, other large vegetable.

Class 0223 - Fresh Culinary herbs (6) Ex: parsley, basil, dill, etc. Six stems (or a comparable quantity) of one variety of fresh herbs must be exhibited in a disposable container of water. Dried herbs are not accepted.

Class 0224 - Small fruits (one half pint box) Ex. Strawberries, blackberries, raspberries, or other similar sized fruits. (if other, please include name of fruit on entry).

Class 0225 - Tree fruits (plate of 5) Ex. apples, pears, peaches, or similar sized fruits.

- Class 0226** - Grapes (plate of 2 bunches).
Class 0227 - Annual Garden Flower, cut specimen, single stem
Class 0228 - Perennial Garden Flower, cut specimen, single stem.
Class 0229 - Fresh Flower Arrangement. Flower materials must be grown and/or collected by exhibitor, not purchased.
Class 0230 - Dried flower Arrangement, no fabric or plastic material allowed.
Class 0231 - Horticulture Notebook. Entry shall consist of a notebook or three ring binder of written narrative describing a horticulture project such as a landscape design, landscape installation, lawn renovation, water garden, flower garden, vegetable garden, lawn mowing service, landscape maintenance business, farmer's market business, or other horticultural project. 4-H'ers are encouraged to include photographs, illustrations and/or landscape drawings that help explain work done by the member. Photos taken from the same location before, during and after the completion of the project are particularly helpful. Exhibitor may enter one horticulture notebook. Horticulture notebook scoring is based on the following criteria: Organization and General Appearance (neat, includes title page and table of contents, original, creative, etc.) 20%, Narrative (including goals, successes, failures, etc.) 40%, General Content (subject matter, photos, maps, knowledge gained, etc.) 40%.
***Class 0232-** Garden Surprise
***Class 0233** - Open Terrariums
***Class 0234** - Closed Terrariums
Class 0235 - Dried flower arrangement, no fabric or plastic material.
 *Ineligible for State Fair competition.
***Class 0236** - Potted Plant
 *Ineligible for State Fair competition.

HORTICULTURE/FLORICULTURE PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

FORESTRY

Superintendent: Cowley County Master Gardeners

1. Read "General Rules".
2. Forestry projects will check in with Field Crops and Horticulture/ Floriculture Department on Thursday, July 29.
3. Each member may enter up to two exhibits in 4-H Forestry but only one entry per class. Participants can exhibit in a collection phase and one other class, 5104-5109, or they may exhibit in any two non-collection classes, 5104-5109.
4. All leaf exhibits are to be mounted on 8½" x 11" heavy stock paper and placed in loose leaf binders. (Magnetic or adhesive filler sheets for photographic prints or sheet protectors are recommended.) Twigs and fruit collections may be exhibited in whatever manner you choose. Maximum tri fold size is 3' x 4'. Resources for exhibiting are located on the Kansas 4-H forestry project page: <https://www.kansas4-h.org/projects/agriculture-and-natural-resources/plant-sciences/forestry.html>
5. Name, club, age, and year in project should be on front cover or in a prominent location.
6. Leaves should be identified with an appropriate label located near the leaf on the same page. These labels should include (1) The proper common name as listed in the 4H334, "List of Native Kansas Forest Trees"(<https://www.bookstore.ksre.ksu.edu/pubs/4H334.pdf>); (2) Location (city and/or county) where collected; and (3) date (day, month, year) collected.
7. Intermediate Forester. Exhibit only in phase(s) enrolled.
8. Senior Forester enrolled in Self Determined can exhibit in Self Determined Forestry at the State Fair.
9. Divide specimens into the following two sections: Native Kansas Trees, and Non-Native Trees (<https://www.bookstore.ksre.ksu.edu/pubs/4H334.pdf>).
10. New specimens are those specimens collected during the current 4-H year and cannot be a duplicate tree species of previously displayed specimens.
11. Group specimens according to the years collected (ex. "old-previous years" and "new")
12. Variations of varieties do not count as different species or specimens.
13. When replacing previously displayed samples, due to degradation, improper mounting or incorrect identification, the specimen label must also be updated. Replacements do not count as new specimens. Replacements should be displayed in the "old previous" section of the display.
14. If you retrieve information for your forestry exhibit, you must include a reference citation to the source.
15. In all leaf collections, exhibit one complete leaf where possible. If leaf is too large, exhibit as much as possible. Sketch in reduced scale the entire leaf and illustrate where the exhibited portion is from. Note: A "leaflet" is incorrect when displayed as the complete leaf for the tree.
16. All work must show originality. Leaf collections and displays should not closely resemble work done by others in the same club.
17. Exhibitors must participate in Conference Judging during the scheduled time. If exhibitors do not participate, they will be docked one ribbon placing, and the corresponding premium.

Knowing Trees as Individuals (Leaf Collections**)

Class - 5100 Forestry Collection: (Choose either A or B) Only those exhibiting at the state fair for the first year may enter this class.

A. Exhibit a minimum of 10 different leaves from native Kansas trees collected within the year. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.

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

Class - 5101 Forestry Collection: (Choose either A or B) This class is open to those exhibiting either for the first or second time at the state fair.

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. This exhibit must include 5 new leaf, twig and fruit specimens.

Class - 5102 Forestry Collection: (Choose either A or B) This class is open to those exhibiting either for the third or fourth time at the state fair.

A. Exhibit a minimum of 30 different leaves (including 10 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.

B. Exhibit a minimum of 15 native Kansas trees showing leaf, twig, and fruit from each species collected. This exhibit must include 5 new leaf, twig and fruit specimens.

Class - 5103 Forestry Collection: (Choose either A or B) This class is open to those exhibiting the fifth time or more at the state fair.

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

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

Tree Appreciation

Class - 5105 Notebook: Entry may include a research or reporting project notebook with no more than 10 pages based on the exhibitor's selected tree. Exhibit must be a different species of tree each year. This notebook may include sketches, drawings, pictures, a story, or any other things which will help tell about the tree you have selected.

Growing and Protecting Trees

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

Tree Culture

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

How Forests Serve Us

Class - 5108 Entry may include collected wood samples (all or partial) and 2 page essay. Wood sample display to be mounted on poster board or any stiff material no larger than a 3' x 4' tri-fold. Essay should be displayed in a covered binder.

Educational/Creative Exhibit

Class - 5109 Entry must be directly related to tree identification or Forestry. Type of exhibit is open (notebook, poster, collection box, etc.) given a maximum tri-fold size of 3' x 4'. Care should be taken to use durable materials that will withstand State Fair conditions. This is a good class to exhibit an unusual collection.

FORESTRY PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

VISUAL ARTS

Superintendents: Deborah Badley, Jennifer Hensley

Jr. Superintendents: Coryn Badley

1. Read "General Rules".
2. Entry tags must be attached to exhibit by check-in time.
3. Items that are designed to be hung on a wall should have appropriate hanging hardware securely attached. Hardware should be appropriate for project weight. Failure to properly attach a hanger will result in docking one ribbon placing and the corresponding premium.
4. Each exhibitor is LIMITED TO 6 TOTAL ENTRIES, 4 ENTRIES/CLASS.
5. Lego projects should be entered in Class 0240 Arts and Crafts and should be on a base.
6. Barn Quilts should be entered in Class 0240 Arts and Crafts. Barn quilt must not exceed a 2' x 2' square. Display cannot be on point (diamond shaped) due to display limitations. The exhibit needs to be prepared for hanging with hooks 2 inches from top edge of quilt. Participant is responsible for using the correct size hooks according to weight.
7. All sketch/draw exhibits must be mounted on matte board or framed. Exhibitors who do not have their exhibits mounted or framed will be docked one ribbon placing. Exhibitors may purchase photo mount boards from the Extension office for small projects. **Glass in frames may be subject to breakage. All sketch/draw exhibits must be ready to hang. Keep in mind that it gets hot in Barn 4 and attaching hangers with glue might not work.
8. A Champion and Reserve Champion in each age division may be chosen for each Class, if quality merits.
9. Items for display at the Kansas State Fair will be selected by the judge(s).
10. Prior arrangements need to be made if exhibit is oversized. Please note during pre-entry.

Class 0240 -	Arts and Crafts
Class 0241 -	Bead Work
Class 0242 -	Leather Craft
Class 0243 -	Ceramic/Pottery (Single piece or matched or related group)
Class 0244 -	Drawing, Sketching, Painting or Computer generated drawings

VISUAL ARTS PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

HERITAGE/FIBER ARTS

Superintendent: Ruth Gordon, Joan Brodbeck

1. Read "General Rules" on page 8.
2. Exhibitors are limited to 6 total entries, 4 entries per class.
3. When articles which are normally worn as a pair are exhibited, both articles must be shown together. Fasten articles together securely with yarn.
4. All exhibits which need to be hung must have the appropriate hanger, rod, wire, or other mechanism attached in order to be properly displayed. Framed exhibits must be ready to hang.

Class 4111 - Crochet, an article.

Class 4112 - Knitting, an article made either by hand or by knitting machine.

Class 4113 - Needle Arts; an article created by hand using any of the following techniques: A) Embroidery and cross-stitch; B) Needlepoint; C) Candlewicking; D) Crewel; E) Lacework; and/or F) Appliqué

Class 4114 - Patchwork and Quilting, an article.

Class 4115 - Rug making, a rug.

Class 4116 - Spinning, a skein.

Class 4117 - Weaving, a woven article.

Class 4118 - Ethnic Arts, an article.

Class 4119 - Macrame, an article.

Class 4120 - Fiber Arts Educational Notebook

FIBER ARTS PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

CLOTHING CONSTRUCTION

Fashion Revue Superintendent: Stephanie Spoon

1. Read "General Rules".
2. Members will be limited to 6 clothing entries combined, not including "sewing for fun" entries, which may include 5 clothing entries and 1 educational exhibits.
3. All items will be judged on Tuesday, July 23, at the Brown Center, Cowley College, 215 S 2nd Street, Arkansas City.
4. Exhibits must be displayed at the fair and checked in on Thursday between 4:00-7:00 p.m. Ribbons must be attached to the garment before bringing it to the fair.
5. Garments must be carefully laundered or cleaned before being exhibited.
6. Each clothing item must be labeled with Class Number, County, Name on 3" x 2½" piece of cloth. Sew labels on inside of garment (back of neck, center back of waistband, or left end of apron band). Label each piece.
7. All garments must be on a hanger & covered with a clear plastic bag.
8. Other items should be placed in clear plastic bags.
9. Classes marked with (*) asterisk are ineligible for State Fair competition.
10. Exhibitors can choose to have garments judged for construction only. They will not be included in style revue judging, should exhibitors choose this option.
11. Purple ribbon garments are eligible for State Fair competition if the class and exhibitor qualify. Exhibitor must be 9 years of age. 4-H member may take only one entry to the State Fair in clothing.
12. Educational classes-share with others what you learned in this project. If a poster, it must not be larger than 22" x 28". May be a notebook or other display. Take care to select durable materials that will withstand fair conditions. Total display space must be no more than 12" high by 12" deep and 18" long. No card table displays are allowed. Name and county must be clearly marked on educational exhibits. See suggestions in the "Going Further" section of the clothing notebook lesson plans for ideas. They will be judged on July 23 with all other clothing exhibits.
13. Definitions:
 - Article: Item constructed in the clothing project such as a backpack, laundry bag, hat, scarf, etc.
 - Garment: Item constructed in the clothing project such as a skirt, dress, shorts, slacks, etc.
 - Outfit: Items constructed that have two or three coordinating pieces, such as skirt, top and jacket; pants and top; pants and jacket. All pieces must be constructed by the 4-H'er.
 - Sewing for Fun: Any item or garment created using creative construction skills. Items will not be judged and are not eligible for ribbon placings.

CLOTHING CONSTRUCTION

- *Class 3998 -** An article, garment or outfit constructed by a 7-8 year old exhibitor.
- *Class 3999 -** Educational exhibit prepared by a 7-8 year old exhibitor.
- Class 4000 -** An article, garment or outfit constructed by a 9-11 year old exhibitor.
- Class 4001 -** Educational exhibit prepared by a 9-11 year old exhibitor.
- Class 4002 -** An article, garment or outfit constructed by a 12-14 year old

- exhibitor.
- Class 4003 -** Educational exhibit prepared by a 12-14 year old exhibitor.
- Class 4004 -** An article, garment or outfit constructed by a 15-18 year old exhibitor.
- Class 4005 -** Educational exhibit prepared by a 15-18 year old exhibitor.
- Class 4006 -** Recycled Clothing Project
- **Class 4007 -** Sewing for fun (all ages, not eligible for ribbon placings or premium)
- *Not eligible for Kansas State Fair
- ** Not eligible for Kansas State Fair and/or awards

CLOTHING PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

FASHION REVUE

Fashion Revue Superintendent:

1. Read "General Rules."
2. All Fashion Revue judging will be held Tuesday, July 20, 2021 at the Brown Center, Cowley College, 215 S 2nd Street, Arkansas City. The Public Fashion Revue will be held on Tuesday, July 20 at 7:00 p.m. at the Brown Center.
3. Entries will be placed in three categories by age of 4-H'ers. Each exhibitor is limited to two entries in Constructed Garment Revue and two entries in Buymanship Fashion Revue. Each entry must be in different classes. The schedule will reflect only two entries per member regardless of classes entered.
4. 4-H'ers must participate in the public revue in order to receive ribbons and premiums. Ribbons will be presented at the public revue.
5. A Champion and Reserve Champion may be selected in all three age divisions of Constructed Garment, Boys Buymanship and Girls Buymanship, providing quality merits.
6. Senior Revue Champions and Reserve Champions are eligible to represent Cowley County at the State contest held during the Kansas State Fair.
7. Official score cards must be filled out before judging and furnished to the judges prior to judging.
8. A complete description of the outfit to be modeled in the Public Fashion Revue is due by 12:00 p.m. on the day of judging.
9. Garments are evaluated on: General Appearance - posture, poise, attitude, grooming, fit of garment, modeling the outfit, fabric suitable to style, fabric and style suitable to occasion or person, color becoming and pleasing, accessories appropriate and becoming. Construction as it affects appearance - construction, details appropriate to fabric and style of garment, quality of construction, and appropriate finishing techniques used.
10. 4-H'er should be knowledgeable of information requested on 4-H judging scorecard.
11. Garments or outfits in the Constructed Garment Revue must be constructed by the 4-H'er in the current 4-H year as part of the clothing construction project. Garments or outfits constructed in the knitting or crochet project can be entered/modelled in the Constructed Garment Revue.
12. Garments in the Buymanship Fashion Revue must be purchased for the 4-H project or made by another individual for the 4-H'er, if the fabric and pattern were chosen by the 4-H'er. Everything that is commonly considered an outer garment must be purchased by the 4-H'er or constructed by another person (vest, jacket, dress, skirt, pants, coat, etc.). A sweater, blouse or shirt can be purchased or made.
13. 4-H'er should be knowledgeable of information requested on Cowley County 4-H Cost Per Wear/Fashion Revue Worksheet.
14. Examples of Buymanship categories: Active Sports Outfit - Shorts and T-shirt, jogging suit, etc.; Casual Outfit - School clothes, sportswear; Dress-up Outfit - Best dress, special occasion; Formal Wear - Prom, special occasion
15. Garments must have been purchased or made in current 4-H year.
16. Buymanship garments are not displayed at the Cowley County Fair.

DIVISION - JUNIOR CONSTRUCTED REVUE (Ages 7-9)

Class 0270 - A Garment

Class 0271 - 2 or 3 piece coordinated outfit

Class 0272 - Other

INTERMEDIATE CONSTRUCTED REVUE (Ages 10-13)

Class 0273 - A Garment

Class 0274 - 2 or 3 piece coordinated outfit

Class 0275 - Other

SENIOR CONSTRUCTED REVUE (Ages 14-18)

Class 0276 - A Garment

Class 0277 - 2 or 3 piece coordinated outfit

Class 0278 - Other

GIRLS BUYMANSHIP REVUE

DIVISION - GIRLS JUNIOR CLASSES (Ages 7-9)

Class 0279 - Active Sports Outfit

Class 0280 - Casual Outfit

Class 0281 - Dress-up Outfit

DIVISION - GIRLS INTERMEDIATE CLASSES (Ages 10-13)

Class 0282 - Active Sports Outfit

Class 0283 - Casual Outfit

Class 0284 - Dress Up Outfit

DIVISION - GIRLS SENIOR CLASSES (Ages 14-18)

Class 0285 - Active Sports Outfit

Class 0286 - Casual Outfit

Class 0287 - Dress Up Outfit

Class 0288 - Formal Wear

BOYS BUYMANSHIP REVUE

DIVISION - BOYS JUNIOR CLASSES (Ages 7-9)

Class 0289 - Active Sports Outfit

Class 0290 - Casual Outfit

Class 0291 - Dress Up Outfit

DIVISION - BOYS INTERMEDIATE CLASSES (Ages 10-13)

Class 0292 - Active Sports Outfit

Class 0293 - Casual Outfit

Class 0294 - Dress Up Outfit

DIVISION - BOYS SENIOR CLASSES (Ages 14-18)

Class 0295 - Active Sports Outfit

Class 0296 - Casual Outfit

Class 0297 - Dress Up Outfit

Class 0298 - Formal Wear

FASHION REVUE PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50

White

\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

FOOD AND NUTRITION

Superintendent Team: Tabitha Hogan, Sarah Boothe, Sheryl Hervey

Youth Member: Dylan Boothe

1. Read "General Rules".
2. Each food exhibitor is limited to 6 food entries combined, which may include: 4 food entries, one food gift package, and one educational exhibit. Complete recipes with ingredients and instructions must be attached with the entry, or the placing will be lowered one ribbon when judged.
3. Exhibits are to be brought to the Fairgrounds and checked in on Friday, August 2 at the time of the assigned Conference Judging.
4. After the food products are judged, the products will be sold unless designated otherwise by the exhibitor. Proceeds from the food sale will be used for prizes for Barn 4 4-H exhibitors.
5. For food safety purposes, any food with custard and dairy-based fillings and frostings (ex. Cream cheese) raw eggs, flavored oils, "canned" bread or cakes in a jar, cut fresh fruit or any food requiring refrigeration (ex. Bacon) or unbaked exhibit with raw flour (ex. No bake cookies) will be disqualified and not judged. Refer to K-State Research and Extension publication, 4-H888, Judge's Guide for Food and Nutrition Exhibits, for information to help you make informed, safe food exhibit decisions. In addition, do not use non-edible items on decorated food or include items in food gift packages that may be unsafe.
6. Alcohol (ex. Wine, beer and hard liquor) is not allowed as an ingredient in food entries. Entries with alcohol in the recipe will be disqualified and not be judged.
7. All baked goods must be left whole and uncut. Small items, such as cookies and rolls, should be the same shape and from the same recipe. Exhibit 3 cookies, 3 muffins, 3 bread sticks, 1 loaf bread, etc.
8. Under baked entries will be lowered one or more ribbon placings.
9. All un-frosted cakes should be exhibited in an upright position with crust showing. The exception is for cakes made with special designs such as Bundt cakes. They should have top crust side down.
10. Attach gummed label to bottom of plate or cardboard. Label templates are available at http://www.kansas4-h.org/events-activities/fairs/kansas-state-fair/docs/foods-and-nutrition/Foods_Label.pdf or make your own with the following information: Class Number, Food Product Name, 4-H member's Name, and County.
11. Any baked product that can be removed from the pan should be placed on a plate, covered cardboard or disposable container of appropriate size for the exhibit.
12. Exhibits should be in food grade plastic bags, disposable plastic containers or boxes of appropriate size for the exhibit. Only the exhibit is judged. The container is not judged.
13. Classes marked with asterisk (*) are ineligible for State Fair competition.
14. Entries will be placed in following four categories by age of 4-H'er: Beginner, Junior, Intermediate, and Senior.
15. Educational Exhibits - May be poster, notebook or project display. If a poster, it must not be larger than 22" x 28". Total space required for project display must be no more than 12" high by 12" deep and 18" long.
16. 4-H'er should be knowledgeable about food preparation and nutritional information.

17. A bake sale will be held Friday, July 30 from 11:00 a.m. - 1:00 p.m. with a food auction at 5:15 p.m. in Barn 4.
18. Food entries receiving purple ribbons are eligible for the Kansas State Fair if age and class requirements are met. Exhibitors must be 9-19 years of age. 4-H members may take only one entry to the State Fair in Foods or Food Gift Packages, and one entry in Food Educational Exhibit.
19. Dried foods are to be exhibited under the Food Preservation Class.
20. Decorated Foods (Class 0410) and Edible Arrangements (Class 0411) will be judged on appearance only. **Entries in these classes must be fit for human consumption (ie, no styrofoam forms).**
21. Class 0413 is open to all 4-H clubs and may make only one entry in this contest. The purpose of the "Creative Cooks" class is to promote 4-H, allow creativity and to benefit the 4-H clubs financially. This year's theme is "Bread Sculptures." Bread sculpture may be constructed from frozen yeast dough or a yeast dough made from scratch. Bread sculptures will not be tasted. Seeds, herbs and other edible decorative toppings and icings may be used. Must submit a typed, detailed recipe including shaping instructions with step by step photos or sketches on an 8 1/2" x 11" paper with name and address in lower left corner (will be covered prior to judging). No size restrictions. For small individual sculptures, 6 should be entered. (ex: bunnies, turtles) Extension Agents or their designees will serve as "judges" and will award 1st, 2nd, 3rd place.
22. All items will be donated to the Cowley County 4-H Council and auctioned at the Food Auction Friday, August 2 at 5:15 p.m. in Barn 4. The proceeds from the sale of the Creative Cooks items will be split evenly between the club making the entry and 4-H Food Auction.

Class 0300 - For age 7-8, non-perishable food product.
Class 0301 - Educational exhibit prepared by 7 or 8 year old.
Class 0302 - For age 9 -11, non-perishable food product.
Class 0303 - Educational exhibit prepared by 9, 10 or 11 year old.
Class 0304 - For age 12-14, non-perishable food product.
Class 0305 - Educational exhibit prepared by 12, 13 or 14 year old.
Class 0306 - For age 15-18, non-perishable food product.
Class 0307 - Educational exhibit prepared by 15-18 year old.
Class 0308 - Food Gift Package. No alcoholic beverages will be accepted. A food gift package must contain at least 3 different food items (prepared for human consumption), made by the 4-H member, in a suitable container no larger than 18"x18"x18". Prepared food items must have recipes attached with the entry. Additional homemade food items beyond the 3 minimum or purchased items may also be included in the gift basket. On the back of the entry card, answer these questions: a) what is the intended use; b) what food safety precautions were taken during and after preparation. This entry will count as a non-perishable food product, not as an educational exhibit. Home canned foods must follow Food Preservation rules.

***Class 0309 -** Modified non-perishable food product. Product must be modified from original recipe to nutritionally enhance the food product. Attach one - 8 1/2 X 11 inch page (front and back) that includes Original Recipe, Modified Recipe, and Narrative to describe modifications made, why modifications were made and lessons learned such as nutritive value, or changes in appearance, doneness, aroma, flavor, tenderness and/or texture. Suggested resources:

Altering Recipes for Better Health Purdue University: <http://www.ces.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/alteringrecipes.pdf

***Class 0410 -** Decorated Food (cookies, cupcakes, cakes)

***Class 0411 -** Edible Arrangement

***Class 0412 -** Food Flop (pre-entry not required. This class allows a member to visit with a judge to learn from the flop.)

***Class 0413-** Creative Cooks

***Not eligible for State Fair**

FOOD AND NUTRITION PREMIUMS

A Champion and Reserve Champion will be awarded in each class if quality merits.

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

FOOD PRESERVATION

1. Read "General Rules".
2. Food preservation is open to all 4-H'ers enrolled in the Foods project.
3. Exhibits must have been preserved since the previous year's county fair, and not been exhibited at the previous State Fair.
4. Recipes and processing methods from the sources below are recommended. Recipes must be from 1995-Present AND MUST BE ADJUSTED FOR ALTITUDE based on your processing location, or it will be disqualified. Processing methods that will be disqualified include: open kettle- canning, over canning, sun canning and using electric multi-cookers. For more information on electric multi-cookers, see http://nchfp.uga.edu/publications/nchfp/factsheets/electric_cookers.html. Untested recipes will be disqualified for food safety reasons.
5. Tested Recipe Resources include:
 - K-State Research and Extension Food Preservation publications
 - Other University Extension Food Preservation publications
 - USDA Complete Guide to Home Canning
 - So Easy to Preserve, 6th edition, The University of Georgia Cooperative Extension Service
 - Ball Blue Book Guide to Preserving
 - Ball Complete Book of Home Preserving
 - All New Ball Book of Canning and Preserving
 - Canning mixes (i.e. Mrs. Wage's, Ball)
 - Pectin manufacturers (i.e. SureJell, Ball)
 - <http://www.rrc.k-state.edu/preservation/recipes.html>
6. Refer to following K-State Research and Extension publications for more information:

- 4H712, Food Safety Recommendations for Food Preservation Exhibits (<http://www.ksre.ksu.edu/bookstore/pubs/4H712.pdf>)
 - MF3170 "10 Tips for Safe Home-Canned Food" (<http://www.ksre.ksu.edu/bookstore/pubs/MF3170.pdf>)
 - MF3171 "Sassy Safe Salsa at Home" (<http://www.ksre.ksu.edu/bookstore/pubs/MF3171.pdf>)
 - MF3172 "What's Your Elevation?" (<http://www.ksre.ksu.edu/bookstore/pubs/MF3172.pdf>)
 - MF3241 "How to Guide to Water Bath Canning and Steam Canning" (<http://www.bookstore.ksre.ksu.edu/pubs/MF3241.pdf>)
 - MF3242 "How to Guide to Pressure Canning" (<http://www.bookstore.ksre.ksu.edu/pubs/MF3242.pdf>)
7. Alcohol is not allowed as an ingredient in food preservation entries. Entries with alcohol in the recipe will be disqualified and not be judged.
 8. Each exhibit must have the complete recipe and instructions attached with the entry card, or it will be disqualified. Recipe must include exhibitor name, recipe source, date of publication and altitude. Where food was processed. If using Mrs. Wage's or Ball mixes, indicate the date the mix was purchased.
 9. Exhibits must be sealed in clean, clear standard canning jars, with matching brand (ex: use Ball lids on Ball jars, or Kerr lids on Kerr jars, etc.) two piece lids. Do not use colored jars. Do not add fancy padded lids, fabric over wraps or cozies as they interfere with the judging process. No fancy packs unless recipe states to do so (ex: Pickled asparagus). Jars must be sealed when entered. For food safety reasons, the size of jars used must not be larger than the jar size stated in the recipe. Note: There are 12-ounce, 24-ounce and 28-ounce canning jars available and may be used. Use pint jar process recommendations for 12-ounce jars. Use quart jar process recommendations for 24 ounce and 28-ounce jars.
 10. Each jar exhibited must be labeled. The label must not cover brand name of jar. The label must give: Class No, Product, Altitude where processed, Canning Method (water bath, weighted gauge or dial gauge pressure method), Process Time, Pressure (psi), date processed including month and year, Name, and County/District. Templates to make adhesive labels can be found at: https://www.kansas4-h.org/events-activities/fairs/kansas-state-fair/docs/foods-and-nutrition/Foods_Label.pdf
 11. Classes 0420-0425 will require one jar for each class.
 12. Hole punch the entry card and use a rubber band to attach the entry card and recipe around the top of the jar.
 13. If dried food product is not in a canning jar, it will be lowered one ribbon rating. Suggested amount: 1/3 – ½ cup, or three or four pieces per exhibit. All meat jerky must be heated to an internal temperature of 160 degrees F before or after drying. This is not the drying temperature! Dried products must include the recipe, preparation steps and heating instructions. Jerky not heated to an internal temperature of 160 degrees F will be disqualified and not be judged. Heating information can be found in "Dry meat Safely at Home" www.ksre.ksu.edu/bookstore/pubs/MF3173.pdf
 14. Each exhibitor is limited to 4 entries and only 1 entry per Class.

Class 4350 - Sweet Spreads (fruit and/or vegetables), Syrups

Class 4351 - Fruits, juices, fruit mixtures (salsa, pie filling, etc)

Class 4352 - Low acid vegetables (green beans, corn, etc. or vegetable mixtures)

Class 4353 - Pickles (fruit or vegetable), fermented foods and Relishes and chutney

Class 4354 - Tomato/ tomato products, tomato juice and tomato salsa (salsa in pints only)

Class 4355 - Canned Meats

Class 4356 - Dried Foods.

FOOD PRESERVATION PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

4-H BANNER - PROMOTION - BARN QUILT

Superintendent: Darla Mill, Madelynn Mill

1. Read "General Rules".
2. Entries in classes 0430-0432 are reserved for club projects. Each banner/4-H promotional item should illustrate a phase of 4-H work which is being practiced by club members.
3. Promotional project may include posters, fliers, graphic design, video or any other type of media which promotes the purpose and mission of 4-H work, citizenship, leadership and/or safety.
4. Banners should be made out of flame-resistant material.
5. Dimensions are to be no less than 12 and no more than 16 square feet with a minimum of 3 feet on one side.
6. Banners must be hung on a rod or rope or hanging wire, strong enough to support the banner. On the end of each dowel, there should be a wire or chain six inches long. Fasten one end of each wire to the dowel. Attach an "S" hook to the other end to permit display. Failure to properly hang banner will result in docking one ribbon placing and the corresponding premium.
7. Banners should be made of materials that permit the banner to be folded or rolled without damaging the display. Objects may not be attached to the front of the banner.
8. A label is to be attached to the front lower left hand (as you face it) corner of the banner giving the name of the club and county. Letters should be two inches in height. Water-proof ink prevents smearing and is recommended for the label.
9. 4-H exhibitors should avoid using copyrighted materials whenever possible. Copyrighted and/or trademarked materials utilized in banners or displays for endorsement or promotion instead of educational experiences will be disqualified.
10. Barn quilt must be a 2' x 2' square. Display cannot be on point (diamond shaped) due to display limitations. Needs to be prepared for hanging with hooks 2 inches from top edge of quilt. Participant is responsible for using the correct size hooks according to weight.
11. Barn quilts must be on 3/8" or 1/2" thick exterior durable material.
12. A champion and reserve champion will be awarded in this division provided quality merits.

Class 0430 - Banner
Class 0431 - Promotional Project
Class 0432 - Barn Quilt

BANNER - PROMOTION- BARN QUILT PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$10.00
Red	\$7.50
White	\$5.00

SPECIAL AWARDS

Top Purple/Blue Ribbon with a Citizenship theme, \$30 by Cowley County Farm Bureau.

Top Purple/Blue Ribbon with a Safety theme, \$30 by Cowley County Farm Bureau.

NOTEBOOKS, PROJECT DISPLAYS, POSTERS

Superintendent: Darla Mill, Madelynn Mill

1. Read "General Rules".
2. Exhibits should show current year's work.
3. Member must be enrolled in the project in which they are exhibiting.
4. Notebooks will be judged on quality, content and neatness. Notebooks must show goals set for project and how they were achieved.
5. Emphasis of project display will be on telling the story of what was done in the 4-H project (by using pictures, models, actual objects, etc.) Display may show a process, finished product, before-after, something learned, etc.
6. The educational display must be the standard tri-fold board ONLY, must not exceed standard tri-fold: 3' wide x 4' tall. Posters in project display should not exceed width of display.
7. Project displays must be placed on a card table furnished by exhibitor.
8. Limit one (1) project display per 4-H member.
9. Exhibitors must reserve space for project displays via the Extension Office. Limited space is available.
10. Promotional posters must be flat and no larger than 22"x 28". THE EXHIBIT SIZE RULE WILL BE STRICTLY ENFORCED! Exhibits exceeding the size guidelines will be docked one ribbon placing and the corresponding premium.
11. Exhibits in Notebooks, Project Displays, and Posters are limited to project areas that have no other 4-H Fairbook category. Exceptions may be made at the discretion of the Extension Agents where a project is unable to be entered due to unforeseen circumstances.
12. Classes marked with asterisk (*) are ineligible for State Fair competition.
13. Follow copyright laws as explained in the General Rules as you are preparing your exhibit. Take care to select durable materials to withstand fair conditions.
14. No "live" ammunition containing propellant or explosive powders may be used in any display! Artistic substitutes must be used in lieu of powder and "live" ammunition. Please remember that neither the Cowley County Fair Association, nor the Cowley County Extension Office are liable for the loss or damage of any personal property included as part of your display.
15. Name, county, age and year in project should be in a prominent location on the exhibit.
16. Shooting Sports exhibits will not be accepted if they are related to reloads.
17. Displays and posters will be judged on the following points:

Stopping Power.....	15
Is the main idea specific?	
Is the idea presented clearly, simply, forcefully?	
Interest, Holding Power.....	15
Does the exhibit give the observer additional facts in a clear, concise informative way?	
4-H Project application.....	15
Is the subject matter an effective showcase?	
Mechanical Power.....	5
Correct letter size, pleasing color combination, appropriate symbols, and models?	
Personal Growth.....	25
How much knowledge was gained by exhibitor?	
Educational Value.....	25

Knowledge shared?
 Total.....100

- *Class 0440 - Self-Determined
- *Class 0441 - Pets
- *Class 0442 - Cats
- *Class 0443 - Leadership
- *Class 0444 - Citizenship
- Class 0445 - Shooting Sports
- *Class 0446 - Family Studies
- Class 0447 - Home Environment
- *Class 0448 - Healthy Lifestyles
- *Class 0449 - Performing Arts
- *Class 0450 - Communications
- *Class 0451 - Reading
- Class 0452 - Wildlife
- *Class 0453 - Officer Notebook
- *Class 0454 - Other (with special permission)
- *Class 0455 - Sportfishing

NOTEBOOK, PROJECT DISPLAY, POSTER PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

ENERGY MANAGEMENT

Superintendent: Brad Ziegler

1. Read "General Rules".
2. Only those who have met the requirements of the electric, small engine or wind energy project are eligible to exhibit in this division.
3. An exhibitor may enter up to three items in this division, but only one article per class.
4. Items that have been in use should be cleaned for exhibit.
5. A sheet of operating instructions must be furnished for any exhibit not self-explanatory.
6. Projects (classes 4600, 4601 and 4602) must be operable using only 110 or 120V AC or battery power. If battery power is required, batteries must be furnished.
7. Any project with a complexity of size or electronics must have (a) instructions for assembly and use and (b) equipment available at the time of judging for actual testing of the exhibit.
8. No hand dipped solder may be used on exhibits.

ELECTRICAL AND ELECTRONICS

Class 4600 - AC Electric Projects. Electric projects with a 110 or 120 V alternating current (AC) power source. Some project examples are household wiring demonstrations, small appliances extension cords, trouble lights, indoor or outdoor wiring boards, or shop lights. Projects may be a restoration or original construction. The project must be operational and meet minimum safety standards. AC projects must be 110/120 V, no 240 V exhibits are allowed, and must be constructed such that the judges have wiring access to examine the quality and safety of workmanship.

Class 4601 - DC Electric Projects. Electric projects with a battery or direct current power source. This class includes electric kits or original projects. This class also includes demonstration DC powered project. Examples include: wiring two or three way switches, difference between series/parallel lighting circuits or wiring doorbells switches. All DC electric projects must include batteries supplied by 4-H'er. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.

Class 4602 - Electronic Projects. 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 if from a kit. Include plans if an original project. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.

Class 4603 - Educational Displays and Exhibits. The purpose of the educational display and exhibit is to educate the viewer about a specific area of the 4-H electrical or electronics project. The display or exhibit should illustrate one basic idea. This class includes any educational displays, exhibits or science fair type projects which DO NOT have a power source, i.e. exhibits, posters or displays of wire types, conduit types, electrical safety, tool or motor parts

identification or electrical terminology. Educational displays and exhibits must be legible from a distance of four feet, using a maximum tri-fold size of 3' x 4'.

SMALL ENGINES

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.

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

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

Class 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' x 4'. Engine should contain no fuel in tank or carburetor.

ALTERNATIVE ENERGY

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

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

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

ENERGY MANAGEMENT PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for the Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

ENTOMOLOGY

Superintendent: Cristine Noland

1. Read "General Rules".
2. 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. The Notebook category also has an Introductory class that 4-H'ers may exhibit.
3. Resources for exhibiting can be found on the Kansas 4-H Entomology project page.

COLLECTION CLASSES

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 Plexiglas). Boxes can be handmade or purchased as long as they are of the correct size. Please visit the website listed above for box instructions and plans.
2. 4-H'ers may choose to use one of two taxonomies:
 1. As printed in "Insects in Kansas" book or
 2. As printed on the "Insects in Kansas Book: 2016 Revised Taxonomy", which follows www.bugguide.net.
3. Each exhibitor is required to identify each box with two identification labels bearing Exhibitor's name, county or district, the collection class 4-H'er is enrolled in and statement of taxonomy used.—One label goes in the upper left corner of the box (inside) and the other on the lower right corner of the box (outside). Arrange specimens in the box so the box can be displayed lengthwise.
4. The number of orders, specimens (and families where required) must be included on both of the exhibitor's box identification labels. Only one adult insect per species can be used in the Collection Boxes and NoteBook Classes, unless labeled as male or female and correctly identified.
5. Arrangement of specimens: The preferred method is to arrange the insects in groups or rows parallel to the short sides of the box. Specimens are to be arranged by Order in the box, then Family where required.
6. Two labels should be centered on the pin beneath each specimen. First (closest to the specimen) is the common name label and the second label should include date/locality. Full county name and state abbreviation should be on the second label. Collector's name (or host) 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. Please refer to "Entomology Collection Exhibit Resource" for full details on out-of-state insects in collections.
8. Only specimens of the class Insecta should be included.
9. Purchased insects are not to be exhibited in collections, but they may be used in educational displays.
10. Specimens of soft bodied insects such as aphids, lice, termites, etc. should be exhibited in alcohol filled vials; however, the use of alcohol filled vials should be limited to only those specimens that lose their shape when pinned, since the vials pose a significant hazard to the rest of the collection if they become loose in transit.

Class 4900 - Beginning Entomology Collection

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

Class 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.

Class 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 - Odonata, Orthoptera, Hemiptera, Coleoptera, Hymenoptera, and/or Diptera

On a piece of paper list what you did to improve your collection during the current year. Members can exhibit in this class a maximum of 3 years. A 4-H'er may move up if they receive a purple ribbon.

Class 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.

NOTEBOOK CLASSES

1. Individual entries are to be placed for display in a three-ring notebook for competition.
2. 4-H'ers may choose to use one of two taxonomies:
 1. as printed in "Insects in Kansas" book or
 2. as printed on the "Insects in Kansas Book: 2016 Revised Taxonomy", which follows www.bugguide.net
3. 4-H'ers 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:
 1. "Insects in Kansas" book or
 2. "Insects in Kansas Book: 2016 Revised Taxonomy", which follows www.bugguide.net
5. The number of orders, specimens and families (required in Intermediate and Advanced classes) must also be included on the Title Page.
6. 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.
7. Date, common name, full county name and state abbreviation should be included for each species. Collector's name on the specimen page is optional.
8. Specimen pages should have two different views of the insect if possible. If pictures are taken on different dates/localities, include information for both.
9. 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.
10. 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.
11. For the Intermediate and Advanced classes, insects are also to be grouped by family behind each order divider.
12. 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.
13. A special project must be completed each year and included in the notebook. See project guideline materials for specifications.
14. Refer to the publication "[Entomology Collection Notebook Guidelines](#)" on the Kansas 4-H Entomology web page for more detailed rules for exhibiting.

Class 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.

Class 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.

Class 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 - 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.

Class 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.

EDUCATIONAL DISPLAYS

1. Share with others what you learned in this project. Exhibit any activity or learning experience related to the field of entomology or the Teaming with Insects curriculum that does not fit into Entomology Collection or notebook classes above.
2. Follow copyright laws as explained in the General Rules.
3. The exhibit may be, but isn't limited to, original works, digital presentations (must provide printed hardcopy for exhibit purposes for duration of state fair), programs, websites, games, apps, display box, notebook, display or poster which you have made.
4. If the exhibit is a wooden display box, it must be 18 X24 X 3.5 inches with a clear plastic top (such as plexiglass) and displayed horizontally. If the exhibit is a poster, it must not be larger than 22" X 28". If the exhibit is a display, maximum size is not to exceed a standard commercial 3' X 4' tri-fold display board.
5. Name and county/ district must clearly be marked on educational exhibits.

Class 4902 - Beginning Educational Exhibit

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

Class 4904 - Intermediate Educational Exhibit

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

Class 4906 - Advanced Educational Exhibit

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

ENTOMOLOGY PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon

Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

GEOLOGY

1. Read "General Rules" on page 8.
2. Each exhibitor will be limited to one entry per Class.
3. The exhibit box should be 18" x 24" x 3½". Plexiglas covers are required. Boxes with glass covers WILL NOT be accepted. All specimens are to be arranged across the narrow (18") dimension of the exhibit box, making the exhibit 18" across the top and 24" deep exactly. If a box has a sliding Plexiglas cover, it must be removable from the top. Screws, locks, or other devices that would prevent judges from removing the cover should not be used. For Lapidary classes 5300-5304 only, the dimensions of the box should be appropriate for the display, but should not exceed 18"x24"x31/2".
4. Each exhibitor is required to identify each display box by placing an identification label bearing name, county, and number of specimens in the upper left hand corner of the Plexiglas 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).
5. Exhibitor may enter in both geology and lapidary classes. Exhibitor may show in only one of the first four geology classes (5200, 5201, 5202 or 5203). Exhibitor may also show in geology class 5204 (special exhibit), 5205 Mineralogy, 5206 Fossils, and in one lapidary class.
6. Geology specimens should be labeled with the number of the specimen, date collected, specimen name or description, and locality (county only) where collected.
7. For the geology classes 5200, 5201, 5202 and 5203, specimens should be mounted in the box by proper groups: rocks, minerals, fossils. Fossils must be identified to the Phylum, Class and Genus level. Genus name is to begin with a capital letter. Species name is all lower case. Genus and species names must either be italicized or underlined, not both. The words "phylum, class, genus" on labels are to be spelled out, not abbreviated. More than one specimen of the same kind of rock or mineral or species of a fossil may be exhibited if this duplication represents different geological formations. Specimen label must show this distinction (Fort Hays limestone, not just limestone; calcite from the Greenhorn Formation, not just calcite; Phylum: Brachiopoda Class: Articulata Genus: Composita from the Morrill Limestone Member, not just Phylum: Brachiopoda Class: Articulata Genus: Composita).
8. For geology classes 5200, 5201, 5202, 5203, 5305, and 5206 all specimens must be collected by the participant (not purchased) from locations in Kansas, with the exception of Tri-State Mining Area specimens collected from these three adjacent counties: Ottawa County, OK; Newton and Jasper Counties, MO. Other out of state specimens will not count in the minimum number for the class, nor will they be considered in the judging.

Class 5200 - Geology. Display at least 15 rocks, minerals, and fossils collected during the current 4H year. Exhibitor is limited to one exhibit box.

Class 5201 - Geology. Display at least 30 different rocks, minerals, or fossils, at least 5 of each. **Fifteen must be collected during the current 4H year.** Exhibitor is limited to one exhibit box. This class is open to those exhibiting either first or second time at State Fair.

Class 5202 - Geology. Display at least 45 rocks, minerals, or fossils, at least 5 of each. **Fifteen must be collected during the current 4-H year.** Exhibit limited to two boxes. This class is open to those exhibiting either the third or fourth time at the State Fair. Identify the rocks as igneous, metamorphic or sedimentary. These rock types must be spelled out on labels or have a legible key.

Class 5203 - Geology. Display at least 60 rocks, minerals, or fossils, at least 5 of each. **Fifteen must be collected during the current 4-H year.** Exhibit limited to two boxes. This class is open to those exhibiting the fifth time or more at the State Fair. Identify the rocks as igneous, metamorphic or sedimentary. These rock types must be spelled out on labels or have a legible key.

Class 5204 - Geology Educational Exhibit: Exhibit relating to everyday living; or to a mineral test, a rock formation, geological history, species of a fossil, forms of one mineral, a variation of one kind of rock, archaeological artifacts, or Indian artifacts. Digital formats are accepted. Exhibit limited to 4 feet of table space.

Care should be taken to use durable materials that will withstand Fair conditions. Exhibitor may show in the class regardless of number of times he or she has exhibited at State Fair or whether exhibitor has entries in classes 5200, 5201, 5202 or 5203. Exhibitor may also exhibit in lapidary class.

Class 5205 - Mineralogy. Display a minimum of 15 mineral specimens collected in Kansas, at least 5 of which have been collected during the current 4-H year. The minerals are to be grouped by mineral class (ie: Carbonates, Oxides, Silicates) and at least 3 classes must be represented. The member must use one standard display box (see #1). The specimens must be labeled with the number of the specimen, date collected, name of specimen, county where collected and chemical composition (ie: CaCO_3 for calcite) if known.

LAPIDARY CLASSES

The 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).

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

Class 5301 - Lapidary. Display before-and-after examples of at least 3 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each.

There is no requirement that the 4-H'er collect any of these. Locales must be identified. Lapidary work should be done during the current 4-H year.

Class 5302 - Lapidary. Display before-and-after examples of at least 6 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each. At least two varieties should be collected from the native site by the 4-H'er, at least one of which comes from Kansas. Locales must be identified. Lapidary work on at least three varieties should be done during the current 4-H year.

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

Class 5304 - Lapidary. Exhibit at least 6 specimens that have not previously been exhibited, which have received lapidary treatment. Lapidary treatment may consist of polishing, and end, face, or flat lapping. Specimens must represent at least 3 different varieties and include at least three cabochons of any size or shape, only one of which may be free-formed. A cabochon is a style of cutting in which the top of the stone forms a domed or curved convex surface. Three of the specimens must be mounted into jewelry findings.

Special lapidary exhibits should be entered in class 5204. Please note that each member is limited to one entry in this class.

GEOLOGY PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

PHOTOGRAPHY

Superintendents: Ashley Bugbee, Debbie Watt, Kimberly McJunkin

Junior Superintendent: Abigail Reid

1. Read "General Rules".
2. Exhibitors may enter a maximum of 4 photographs.
3. Black and white prints and color photographic prints and/or videos may be exhibited.
4. Photographs entered must be the result of the current year's project work by the 4-H member. Photo images must be taken by the 4-H Member (exhibitor).
5. Remove white border from the photo print before mounting.
6. All photos must be no larger than 8" x 10" and no smaller than 7"x 9", after trimming.
7. Photos are to be mounted across the narrow (11") dimension of an 11" x 12.5" sheet of white or cream studio matte board. Photos mounted on poster board will not be displayed. Mount boards may be purchased in the Cowley County Extension Office.
8. Photos must be mounted with the top edge of the print 1" below the top of the mount (board is always oriented narrow side up). The sides of the print must be equal distance from the two sides of the mount.
9. A full coverage permanent mount (spray adhesive recommended or heat mount) must be made.
10. No lettering, including dates, is permitted on the front of the mount or on the photo. No underlay or borders are to be used.
11. To protect exhibits from dust and moisture, place mounted photo in protective plastic bag.
12. On the back of the mount, write; the exhibitor's name, photo class, and county name.
13. Improperly mounted photos, oversize or undersize photos or photos with the white borders not removed or lettering (including dates) on the photo, will be awarded a ribbon one placing lower than the placing determined by the official judges.
14. Photographs taken with a digital camera and having no more adjustments than exposure, color intensity or correction, one click filter effects, red eye removal, cropping, dodging and burning should be entered in the standard color or black and white classes. HDR photos are to be entered in the standard photo class.
15. Digital Composite Image: Finished photo must be created from two or more original images photographed by exhibitor. HDR photos do not qualify for this class. Photos will be judged on photographic merit as well as manipulation technique and process.
16. 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.
17. Appropriate photo subject matter: Photographic subject matter is expected to follow 4-H standards. For a sense of prohibited subject matter, review the Kansas 4-H member Code of Conduct; in general, if it is not allowable at a 4-H event, it is not allowable in a 4-H photograph at the Cowley County Fair.

18. Photos with live subject(s) on railroad right of way or taken from railroad right of way property will be disqualified, not judged and not be displayed at the Cowley County Fair.
19. Copyright protections must be observed. Decisions as to display and/or penalties will be made by the Photography Department Superintendent and the Extension Agent(s) responsible for the photography department.

Class 4800 - Color photos taken by a 4-H member with 3 years or less in the project.

Class 4801 - Color photos taken by a 4-H member with 4 – 7 years in the project.

Class 4802 - Color photos taken by a 4-H member with 8 or more years in the project

Class 4803 - Black and white photos - all levels of experience (Black and white prints only)

Class 4806 - Digital Composite Image

Photo must be from two or more originals taken by the exhibitor. Exhibitor must include a second 11 x 12-1/2 matte board mounted with standard size print or prints (if more than one photo was used) of the original photo(s) and 3 x 5 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 15 above for definition.

Portfolio Classes

Class - 4807 Growth Portfolio

1. Member must have been enrolled in Photography project for five (5) years or more.
2. Exhibit will consist of 5 (five) photos - one from each of the past 5 years of enrollment. Each photo must have been created in a different year and must be labeled with year taken and which year of enrollment it represents.
3. Photos must be 8" x 10" and may be color or black and white.
4. An information sheet must accompany each photo giving brand and model of camera used to create the photo. The settings for focal length, aperture, mode and shutter speed must also be listed.
5. Skill set used to create the photo must be given and explained. Main goal for each year should be listed.
6. Beginning with photo 2, member description of GROWTH in project skill must be included on information sheet.
7. Exhibit will consist of photos arranged in chronological order of enrollment, information sheet on each photo, and all information listed in #6 and #7. A portfolio book will be required.

Class - 4808 Career Portfolio

1. Member must have been enrolled in Photography for 5 (five) or more years OR member must be age 15 -19 and been enrolled in photography for at least two (2) years.
2. Exhibit will consist of ten (10) 8 x 10 photos showing skill development in one of the following photography areas: Portraiture, Special Effects (not done with computer), Landscape, Photo Journalism, Black and White, Nature/Wildlife or Graphic Design (computer skills with photos). Photos may have been created over multiple project years.
3. Photos may be color except if Black and White option is chosen.

4. An information sheet must accompany each photo giving brand and model of camera used to create the photo. The settings for focal length, aperture, mode and shutter speed must also be listed.
5. A one page summary should accompany the portfolio listing the goal for pursuing this area of photography and what skills were learned while doing so. Mentors should be acknowledged. Career exploration can also be described.
6. Exhibit will be presented in a notebook designed for portfolio review with pages for required information from #4 and #5.

NOTE: A member may enter only one portfolio each year. Portfolio must have qualified at the County/District Level beginning with 4-H year 2021-2022. For State Fair 2020 and 2021 no County/District is required.

PHOTOGRAPHY PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

SPACE TECH

Superintendent: Brenda Hicks

Junior Superintendent: Charlie Hensley

1. Read "General Rules" on page 8.
2. The 4-H member must be currently enrolled in the 4-H Space Tech project to exhibit in this division. Each exhibitor may enter one exhibit per class. Exhibit must have been completed during the current 4-H year.
3. Educational displays should be creative and showcase something specific the 4-H member has learned in the project during the current 4-H year. Follow copyright laws, as explained in the General Rules. Site your sources of scientific information on your exhibit, when appropriate.
4. Educational displays are not to exceed a standard commercial 3' X 4' ' tri-fold display board. Other odd sized-type displays (non-tri-fold) shall not exceed 30"x36". Care should be taken to use durable materials that will withstand Fair conditions. No electricity will be provided.
5. Exhibitor's name, county, age, and year(s) in project must be tagged or labeled in a prominent location on the exhibit, educational display, notebook, and/or poster.
6. Educational posters must be no larger than a 22" x 28" poster board.
7. Project notebooks must be organized in a 3-ring binder.
8. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
9. All revisions of all forms previously released for the STEM division either undated or dated prior to 2016 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.
10. Relevant documents may be obtained from Cowley County Extension Office or from www.STEM4KS.com.

ASTRONOMY

1. The 4-H member must be currently enrolled in the 4-H STEM - Astronomy project to exhibit in this division.
2. 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.
3. Telescopes are limited to no more than six feet in length. They must be placed on a stationary stand that does not allow the telescope to roll and/or fall over. The stand cannot extend past two feet in length or width.
4. Each 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) for 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.
5. See the last section for full details about exhibiting posters, display boards and notebooks.
6. Two photographs showing telescope construction and operation are required. Photographs should be mounted on one side of an 8 1/2" x 11" page. A brief caption should accompany each photograph. Place photos in the 10" x 13" manila envelope.
7. The telescope must be properly assembled and painted with a smooth and uniform finish. Decals, if used, should be attached smooth and tight.
8. Telescopes designed by the exhibitor must be original, not a modification of an existing kit.
9. Exhibitor's name, county, age, and year(s) in project must be tagged or labeled in a prominent location on the telescope.
10. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's exhibit, at the judges' discretion, will receive a participation ribbon.

Class 5500 - Telescope made from kit

Class 5501 - Telescope made from original design

COMPUTERS

Computer Systems

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.

1. The 4-H members must be currently enrolled in the 4-H STEM – Computers project to exhibit in this division.
2. Exhibit must have been completed during the current 4-H year.
3. 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.
4. See the last section for full details about exhibiting posters, display boards and notebooks.
5. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's exhibit, at the judges' discretion, will receive a
6. participation ribbon.

Computer Systems

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

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

1. All exhibits must be:
 1. Self-contained on a USB drive (thumb drive, flash drive, jump drive, or other any other name for a small USB storage device; the rules will use "USB drive"). This means that a judge can plug in the USB drive into a computer and be able to run the exhibit as described below.
- OR
2. System -On-A-Chip (SOC) (such as Raspberry Pi) or a Micro-Controller (such as an Arduino or Ozobot) AND is a compact (less than 8"X 8"X 8") system, which can be programmed AND requires minimal assembly to operate (e.g. connecting power, display, and keyboard/mouse cables). Referred to as a "chip system" through the rest of the rules.
2. Physical computers such as tablets, smart phones, laptops, or personal computers (PCs) will not be accepted as an exhibit.
3. "Chip system" may use/include GPIO bread boards or HATs (Hardware Attached On Top) the size of which is not included in the size of the chip system however the total size of the chip system and GPIO devices may not exceed 24"X24"X24" including any protective enclosures.
4. Any attached GPIO devices are not judged for electrical construction or quality as this division is focused on the operational aspects of the system that have automated articulated structures (arms, wheels, grippers, etc.) which the exhibitor constructed, can also be classified as a robot, and the exhibitor must

decide which division to exhibit in as the exhibit may not be entered in the both divisions.

5. For chip system, all electric components of the system must be adequately covered or concealed with a protective enclosure. Paper is NOT considered an adequate enclosure or covering for the electrical components.
6. All revisions of all forms previously released for the STEM division either undated or dated prior to current year are void for use and new forms must be obtained and used that are dated by the Kansas State 4-H Office for the current year. Use of old forms will result in the loss of one ribbon placing for exhibits.
7. For all computer system entries, the following items are required as part of an exhibit packet:
 1. A manila envelope with the Computer Exhibit Form attached to the front, this form can be downloaded at www.STEM4KS.com.
 2. 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.
 3. For exhibits that are entered on USB drives, at least one (1) graphic (picture, screen shot/capture, slide, etc.) of the project must be printed out on an 8.5" X 11" sheet of standard computer paper, placed in a plastic sheet protector, to allow for proper display and recognition at the Kansas State Fair. This is what will be displayed during the fair, all other materials will be sent back to the county/district office. On the back side of the graphic the 4-Her's name, county/district, and club should be listed.
 4. Instructions to run any part of the exhibit on the USB drive. (There should be at least three (3) items in your manila envelope: USB drive, graphic and instructions).
8. Each exhibit must be accompanied by a "4-H Engineer's Journal." The engineer's journal should be typed. It can either be included electronically on the USB drive (preferred) or printed and placed in the manila envelope.
 1. The "4-H Engineer's Journal" should start with a dated entry describing what the 4-H member is trying to accomplish/build.
 2. 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).
 3. 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.
 4. Pictures can also be included in the "4-H Engineer's Journal" but should not be more than 50% of the entries.
 5. The "4-H Engineer's Journal" should contain at least one graphic.
 6. The "4-H Engineer's Journal" must be at least 3 pages in length.
 7. An example of a "4-H Engineer's Journal" can be found at www.STEM4KS.com.
 8. The "4-H Engineer's Journal" will comprise 50% of the overall exhibit score. Failure to include a "4-H Engineer's Journal" will result in the exhibit being disqualified.
9. If the exhibit is a program, application, app, web site, or requires any coding, the source code must be included on the USB drive. Failure to include a copy of the "source code" may result in up to one ribbon place deduction.
10. Diagrams or decision trees showing the logical flow of the system must be included on the USB drive for all exhibits.

11. 4-H'ers must bring a computer that will run their project to the fair for judging. Operating instructions are still required. Instructions should be written as though you were helping a less techy person, (like a grandparent) use the USB drive with a computer similar to what is described in rule 9 below. An example of instructions can be found at www.STEM4KS.com.
12. Each exhibit must accomplish a specific automated task using a computer, a chip system, or virtual machine (VM).
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.STEM4KS.com. There are four (4) areas each exhibit will be judged on. They are:
 1. 4-H Engineers Journal (what I learned to make it work), 50% overall score
 2. Instructions (how I help others make it work), 25% overall score
 3. Functionality (does it work), 12% overall score
 4. Diagrams (and code if applicable) (how I think it works), 13% overall score

Division – Computer Systems

- Class - 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.')
- Class - 5591** - Computer presentation (power point, web page/site, animated graphics, etc.)
- Class - 5592** - Single computer system (web server, database server, etc.)
- Class - 5593** - Networked system consisting of two or more computers
- Class - 5594** - Chip system- a small (4 8"X4 8"X4 8") programmed physical device that accomplishes a specific task

ROBOTICS

1. 4-H members must be currently enrolled in the Kansas 4-H STEM - Robotics 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.
3. Each robot must be free-standing, without the need for additional supports in order to be moved or exhibited. Each exhibit must include a robot, information packets are not a sufficient exhibit.
4. Robots must have automated articulated structures (arms, wheels, grippers, etc.). Game consoles that display on a screen are not considered robots and should either be entered in computer system division or energy management project. Robots requiring no assembly, just programming, such as Ozobots, are considered computer system projects as the skill is focused on the programming not on the construction of the robot.
5. Robot dimensions should not exceed 2 feet high, by 2 feet wide, by 2 feet deep. Weight may not exceed 15 pounds. If displayed in a case (not required or encouraged) the outside case dimensions may not be more than 26 inches in height, width, or depth.
6. Materials including but not limited to obstacles, spare batteries, and mats for testing the robot may be placed in a separate container, which is not included in the robots dimensions, that container may not be larger than 576 cubic inches as measured along the outside of the container. (Examples: 4"X4"X36" or 4"X8"X18" or 6"X6"X16) The container, if used, and/or any large objects (such as mats or obstacles) should be labeled with the exhibitors name(s) and county or district.
7. All electric components of the robot must be adequately covered or concealed with a protective enclosure. Paper is NOT considered an adequate enclosure or covering for electrical components.
8. Robots may be powered by an electrical, battery, water, air or solar source only. Junk drawer robots may be powered by a non- traditional power source. Robots powered by fossil fuels/flammable liquids will be disqualified. Robots that include weaponry of any kind will be disqualified. Weaponry is defined as any instrument, possession or creation, physical and/or electrical that could be used to inflict damage and/or harm to individuals, animal life, and/or property.
9. Remote controlled robots are allowed under certain conditions provided that the robot is not drivable. Robotic arms (hydraulic or electric) are allowed. A remote is allowed provided more than a single action happens when a single button is pressed on the remote, for example "a motor spins for 3 seconds, at which point an actuator is triggered, then the motor spins for 3 more seconds." Remote controlled cars, boats, planes and/or action figures, etc. are not allowed.
10. Each robot must be in working condition. The judges will operate each robot to evaluate its workmanship and its ability to complete year its intended task. In the event the robot uses a phone, tablet, or similar device for programming AND control of the robot a video will be used to evaluate the working condition of the robot.
11. Each exhibitor is required to complete the "4-H STEM Robotics Exhibit Information Form" which is available at www.STEM4KS.com. This form must be attached to the outside of a 10" x 13" manila envelope.
12. The exhibit must include written instructions for operation (the instructions should be written as if they were to tell a grandparent or elderly person how to

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

13. In the event that the robot uses a device like a phone, iPad, or tablet for programming AND operation, DO NOT include the device (phone, tablet, etc.). The device's safety cannot be insured. Instead record a video demonstrating the instructions included for your robot. It should show, setting up the robot, starting the robot, the robot executing its task, and powering off the robot, just like the instructions are written.
14. Creativity, workmanship, and functionality will be strong criteria in judging the "Robot designed by Exhibitor" classes. All robots should have a purpose or intended function, examples include, but are not limited to: following a line, sweeping the floor, solving a rubix cube, sorting colors, or climbing stairs.
15. Exhibitor's name(s) and county or district must be tagged or labeled in a prominent location on the robot.
16. See the last section for full details about exhibiting posters, display boards and notebooks.

Junior - 7-8 years of Age (Not eligible for State Fair)

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

Intermediate - Ages 9-13

- Class 5509 -** Robot made from a commercial (purchased) kit. (No programming, just assembly.)
- Class 5510 -** Robot designed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.
- Class 5511 -** Programmable robot made from a commercial (purchased) kit.
- Class 5546 -** Robot designed and constructed by exhibitor or from a commercial kit, that is operated by a remote controlled device.
- Class 5544 -** Junk Drawer Robotics

Senior - Ages 14 and Up

- Class 5513 -** Robot made from a commercial (purchased) kit (No programming, just assembly)
- Class 5514 -** Robot designed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.

- Class 5515 -** Programmable robot made from a commercial (purchased) kit.
- Class 5547 -** Robot designed and constructed by exhibitor or from a commercial kit, that is operated by a remote controlled device.
- Class 5545 -** Junk Drawer Robotics

Team Robotics Project

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

ROCKETRY

Exhibit Information for ALL Rocketry categories:

1. All revisions of all forms previously released for the STEM division either undated or dated prior to current year are void for use and new forms must be obtained and used that are dated by the State 4-H Office for the current year. Use of old forms will result in the loss of one ribbon placing for exhibits.
2. Relevant documents may be obtained at www.STEM4KS.com
3. NAR refers to the National Association of Rocketry and its governing board.
4. Tripoli refers to the Tripoli Rocketry Association and governing board.
5. All NAR documents, with the exception of the "pink book," referenced herein can be found at <http://www.nar.org>.
6. If a fire burn ban is in effect for Cowley County, exhibitors are not required to launch their rocket(s). All requirements for the launching of rockets for the fair and the documenting of the launching are suspended for the duration of the ban.
7. See the last section for full details about exhibiting posters, display boards and notebooks.

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 STEM a mid-powered rocket is defined as a rocket that uses an 'E', 'F', 'G', or equivalent engine for launch. In addition, rockets also qualify for mid-power if they meet any of the following criteria:
 1. Is 2 inches or greater in diameter (not including fins) and taller than 3 feet (36 inches including fins) and do not use an engine(s) exceeding 160.01 Newton seconds of total impulse (an 'H' engine equivalent or above).
 2. The total impulse of all engines used in the rocket is greater than 20.01 Newton-seconds and less than 160.01 Newton-seconds.
4. For the purposes of Kansas 4-H STEM a high-powered rocket is defined as a rocket that meets any of the following criteria:
 1. Weighs more than 3.3125 pounds (53 ounces or 1500 grams) at the time of launch;
 2. Uses a 'H' engine or larger to launch
 3. The total impulse of all engines used in the rocket is greater than 160.01 Newton-seconds of thrust.
 4. Includes any airframes parts of ductile, metal, though, the use of ductile metal is strongly discouraged. e. Models powered by rocket motors not classified as model rocket motors per NFPA 1122, e.g.:
 5. Average thrust in excess of 80.01 Newtons
 6. Contains in excess of 125 grams of propellant and are limited to only H and I motors.
 7. Uses a hybrid motor or a motor designed to emit sparks

5. High power certification is defined as having successfully completed a certification program for high-powered rocketry through the NAR or Tripoli and maintaining that certification. This applies to all membership levels in the NAR and Tripoli. Specifically the "Formal Participation Procedure" for the "Junior HPR Level 1 Participation Program" as outlined by the NAR and the "Tripoli Mentoring Program (TMP)" as outlined by Tripoli.
6. NAR rules for launching and construction of all rockets are assumed to be used by all 4-H STEM exhibitors and will be considered during judging.
7. For the purposes of Kansas 4-H STEM, NO rocket may be launched using engines totaling more than an 'I' impulse engine or 640 Newton-seconds of total thrust.

Exhibit Rules for ALL rocketry categories:

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

1. 4-H members must be currently enrolled in the 4-H STEM-Rocketry program to exhibit in this division.
2. Each exhibitor may enter up to two rocket exhibits that have been constructed during the current year. If two rockets are entered, one rocket must be a "model rocket kit" or the second may be entered into any other applicable class. An exhibitor may not enter two rockets in the same class.
3. The report that accompanies the rocket must be limited to the 4-H STEM Rocket Exhibit Information Form which is affixed to a 10" x 13" envelope. This envelope should NOT be attached to the rocket stand or rocket. The information form should be signed by the exhibitor. This may be downloaded from www.STEM4KS.com Any rocket exhibit not including this completed envelope will receive an automatic participation ribbon.
4. Plans (or a photocopy) must be placed inside the envelope.
5. This includes original design rockets.
6. If a rocket kit has been modified structurally (Which must provide all necessary details to construct an original design rocket.), notations need to be given indicating the changes made, either by notations on the Rocket Exhibit Information Form or by placing notes in the plans. Such modifications require the rocket to be swing tested and documented to show a stable flight.
7. One or more photographs of the rocket during construction and at the launch site are required.
8. Photographs showing the rocket at the moment of ignition are preferred.
9. Photographs must be mounted on one side of 8 1/2" x 11" page(s).
10. There must be at least 1 page of photos and no more than 5 pages of photos.
11. Include at least one photo showing rocket construction, preferably with the exhibitor included.
12. Do not include photos of members catching their rockets as they return to earth. This is an unsafe practice, and we do not
13. recommend or condone this practice.
14. Pictures at the launch site are not required in the event of a burn ban.
15. To exhibit in this division:
16. The rocket must have been flown, unless a burn ban is in effect.
17. Support rods must not extend past the tip of the highest nosecone on the model.

18. 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.
19. No model may be submitted on a launch pad.
20. Launches should not be conducted in winds above 20 mph, and will constitute a disqualification of rocket exhibit.
21. 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.
22. 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.
23. Flight damage is to be documented by the participant on either the construction plans or the 4-H STEM Rocket Exhibit Information Form.
24. 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.
25. Engines and igniters, under any circumstance, ARE NOT permitted with the exhibit and constitute an immediate disqualification.
26. 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.
27. 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.
28. Rocket engines should not be used to join multi-stage rockets together.
29. Multi-stage rockets can be displayed without having the stages connected together. In that case the final stage (the one with the nose cone) should be placed on the display stand, and other stages with a loop of string to the display stand.
30. The different stages must be included to complete the rocketry exhibit, incomplete exhibits will be deducted at least one ribbon placing.
31. Use of any engines to join the stages together will be subject to immediate disqualification.
32. Multi-stage rockets can be flown using just the final stage and be considered fully flown.
33. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's rocket, at the judges' discretion, will receive a participation ribbon. All information necessary will be given to the NAR and/or TRIPOLI for investigation and possible revocation of membership.

Construction Rules for All Rockets

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

1. Rockets are to be properly assembled according to the assembly instructions.
2. Beginner kits with prefabricated fin assemblies and pre-finished rockets requiring no painting are not acceptable, and will be disqualified.
3. Plastic snap together fins and prefabricated fin assemblies that do not require fin alignment are not acceptable, and will be disqualified. 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. 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.
4. 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.
 5. Fin assemblies that are printed using a 3D printer are excluded from this rule. Through detailed instructions on the creation of the fin assemblies must be provided and an additional page of photos may be included to show the creation/printing of fin assemblies.
 6. Angles of fins must fall within a plus or minus 2 degree variation using an approved fin alignment guide (such as KSSTAC10). An official fin guide is available from www.STEM4KS.com.
 7. Fins should be rounded or streamlined according to instructions. If the other edges are rounded to reduce drag on all exposed sides, there should be no ribbon deduction, unless instructions indicate to leave flat.
 8. Fins and body tubes are to be sealed with sanding sealer and/or primer to eliminate the appearance of body grooves and wood grain.
 9. Fins and launch lugs are to be filleted to reduce drag and properly secure them to the model.
 10. Engine mounts are to be securely attached to the body tube.
 11. Any seams on plastic parts are to be sanded smooth.
 12. Body tubes/airframes/engine mounts can be made from suitable materials, including, but not limited to: reinforced paper, cardboard, phenolic resin, specialized polymer resins, fiberglass, Kevlar, or other suitable structural materials. However, foam may not be used for external body or other external rocket parts.
 13. The nose cone is to fit snugly but still allow for easy removal.
 14. Exhibits must be uniformly painted and smoothly finished or finished as per rocket instructions, and have decals applied smoothly.
 15. Non-standard surfacing (such as textured paint) may be used if directed by the instructions, this includes scratch built rockets.
 16. Models may not be judged based on their paint scheme (colors and placement on the rocket), with the exception of rockets that fit the definition of a ‘scale model.’ All other rockets do not have to follow the suggested paint scheme, allowing the 4-H’er to display maximum creativity in the finishing of their rocket. Under no circumstances is the weight given to the paint scheme to be sufficient enough, by itself, to move the model from one ribbon placing to another.
 17. “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.
 18. Scale Model Rockets are to be finished and completed with a majority (greater than 70%) of decals.
 19. If a modification is made to the rocket, for example, adding a fin, a swing test must be conducted on the rocket, and the documentation provided. Failure to test and document flight stability following modifications will result in two ribbon placing deductions.

Model Rocketry Specific Guidelines (ages 7 and up):

Model rockets are generally small-to-medium sized rockets that can be purchased at hobby stores that an individual(s) builds from parts

Purpose:

similar to those found in model rocket kits.

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

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

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

1. Original design rockets cannot be a modification of a pre-existing kit and must be of original design.
2. Original design rockets must be designed by the exhibitor(s).
3. Original design rockets must include detailed instructions, so that someone could construct the original designed rocket just like a kit purchased at a store. Instructions can be as many pages as needed to convey full and complete construction techniques.
4. Original design rocket instructions should not include copies of instructions in part or in whole from existing kits.
5. For a rocket entered in the original design classes, describe in the summary how the rocket was tested for stability prior to flying. Swing testing of the rocket is required. Other tests and calculations are encouraged. Exhibitors must include documentation of the swing test. Failure to swing test a rocket will result in a deduction of TWO ribbon placings.
6. A minimum of one additional page must be added to the rocketry information pack detailing the test(s) performed to insure stability. 4-Hers are strongly encouraged to provide as much detail as possible. Failure to provide adequate written documentation will result in a disqualification.

Division A -Exhibitors 7 through 13 years old

Class 5520 - Rocket made from kit. Include plans.

Class 5527 - Scale Model Rocket made from kit includes plans

Division B -Exhibitors 11 through 13 years old (7-10 year olds may not enter in this class)

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

Class 5538 - Scale Model Rocket designed by exhibitor: not merely modification of an existing kit. Include plans and stability testing.

Division C -Exhibitors 14 years and older

Class 5525 - Rocket made from kit. Include plans.

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

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

Class 5539- Scale Model Rocket made from kit. Include plans.

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

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.

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

Mid-power Rocketry (2x'D' to 'G' Engines) Guidelines:

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

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

Division E- Exhibitors 14 years and older

Class 5536 - Mid-power rocket made from kit or original design.

High Power Rocketry ('H' or 'I' engines) Guidelines:

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

1. Exhibitors must be at least 14 years of age by January 1 of the current year.
2. The rules for ALL categories apply.
3. In addition to the information packet completed for all rockets, a high power information form is to be completed and placed inside of the information packet. This may be downloaded from www.STEM4KS.com.
4. Exhibitors in this division must hold memberships in either NAR or Tripoli organizations.
5. The NAR High Power Rocket Safety Code applies to the construction and launching of all rockets displayed in this division. As such all exhibitors must comply with the NAR High Power Rocket Safety Code that is in effect as of October 1st of the current 4-H year. However in the event that there is a modification in this code the STEM Action Team may review and implement the modified code.
6. All rockets in this division are to be launched under adult supervision by the 4-H member who constructed the rocket.
7. For rockets launched using an engine(s) that 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).
8. If according to Federal Aviation Regulations Part 101, a waiver is required to fly the rocket, a copy of that waiver is to be attached to the High Power Information Form. In the case where the launch was a public event a substitute to a copy of the waiver is the Range Safety Officers (RSO's) contact information.
9. High Power Rockets may be displayed without a supporting stand. If a supporting stand is used, it is not to exceed 4-1/4" (four and one-quarter inch) thick and 8" square. The exhibitor's name, county or district, and age must be labeled on the base.

Division F -Exhibitors 14 years and older

Class 5535 - High power rocket made from kit or original design.

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. UASs are commonly known as Unmanned Aerial Vehicles (UAVs) or drones. Members explore the uses and applications of unmanned aerial systems including how UASs link to other projects such as geology, robotics, electronics, crop science and many more.

1. The 4-H members must be currently enrolled in the 4-H STEM project to exhibit in this division.
2. Each exhibitor may enter one exhibit per class. Exhibit must have been completed during the current 4-H year.
3. The information that accompanies the UAS must be limited to the 4-H STEM Exhibit Information Form which is affixed to a 10" x 13" envelope. This envelope should NOT be attached to the UAS. This may be downloaded from www.STEM4KS4H.com. Any UAS exhibit not including this completed envelope will receive an automatic participation ribbon.
4. 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.
5. Unmanned Aerial Systems that include or depict weaponry of any kind will be disqualified.
6. See the last section for full details about exhibiting posters, display boards and notebooks.
7. If modifications are made to the exhibit a page should be attached noting those modifications.
8. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's exhibit, at the judges' discretion, will receive a participation ribbon.

Junior and Intermediate Division - 7-13 years old

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

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

Senior - 14 years and older

Class 5706 - Unmanned Aerial Systems designed and constructed by exhibitor that is operated by a remote controlled device. The UAS must not be a mere modification of an existing kit or plan. You may not exhibit a UAS that is purchased off the shelf in this class.

Class 5707 - Practical application of an Unmanned Aerial System constructed from a commercial (purchased) kit. This includes the UAS, plus one or more of the following: video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, and bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.

4-H STEM EDUCATIONAL EXHIBITS – POSTERS, NOTEBOOKS AND DISPLAY BOARDS

Purpose: To allow 4-Hers to explore STEM outside the bounds of traditional projects for rockets, robotics, astronomy, computers and unmanned aerial 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. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
3. Exhibits in posters, notebooks and display boards must contain substantial supporting educational materials.
4. Educational display boards, posters and notebooks should be creative and showcase details about the knowledge learned in the project during the current 4-H year. Value is placed on youth who can demonstrate how their skills have increased while completing the project. Each exhibit will be judged on uniqueness, creativity, neatness, accuracy of material, knowledge gained, and content. An exhibit judging score sheet will be available at www.kansasSTEM.com. For example, a rocket that may have crashed and/or is highly damaged may be made into an educational display or poster that tells a great story with many lessons learned.
5. Follow copyright laws, citing all sources of information in a standard notation. Sources of information must be cited on the front of your exhibit, including all posters and educational display boards.
6. Educational displays are not to exceed a standard commercial 3'x 4' tri-fold display board. Care should be taken to use durable materials that will withstand Cowley County Fair conditions.
7. "Construction Kits" that are part of Educational displays must be contained in cases (tackle boxes, sealable containers, etc.) that may not be larger than 1' X 2' X 2' and must have a latch which securely keeps all components contained in the "Construction Kits". Other components are to adhere to appropriate dimensions as stated elsewhere.
8. Educational Project notebooks must be organized in a 3-ring binder.
9. Any three dimensional display exhibits may not be thicker than 1".
10. Engines and igniters for rockets ARE NOT permitted with the exhibit and constitute an immediate disqualification. This is for safety reasons and includes both spent and live engines.
11. Exhibitor's name, county or district, age, and year(s) in project must be tagged or labeled in a prominent location on the notebook, and/or "Construction Kit,." For education displays and/or posters the exhibitor's name, county, or district, age, and year(s) in project must be tagged or labeled on the back of the exhibit. Exhibit cards are not sufficient as they may be removed or repositioned for display. Failure to label an exhibit may result in one ribbon placing deduction.
12. Exhibits should possess the following qualities (in no particular order):
 - A Central theme
 - What you want others to learn
 - Be designed and constructed in a manner befitting the exhibit
 - Be something you are interested in
 - Be related to Astronomy, Computer systems, Robotics, Rocketry, or Unmanned Aerial Systems
 - As well as those characteristics described above.

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

Astronomy - Junior and Intermediate Division – 7-13 years old

- Class 5731 -** Junior Astronomy Educational Display
Class 5732 - Junior Astronomy Educational Notebook
Class 5733 - Junior Astronomy Educational Poster

Astronomy- Senior Division – 14 years and older

- Class 5736 -** Senior Astronomy Educational Display
Class 5737 - Senior Astronomy Educational Notebook
Class 5738 - Senior Astronomy Educational Poster

Rocketry Intermediate Division 9-13 years old

- Class 5741 -** Rocketry Educational Display
Class 5742 - Rocketry Notebook
Class 5743 - Rocketry Poster Board

Rocketry Senior Division - 14 years and older

- Class 5746 -** Rocketry Educational Display
Class 5747 - Rocketry Notebook
Class 5748 - Rocketry Poster Board

Robotics Junior Division 7-8 years old

- Class 5751 -** Robotics Educational Display
Class 5752 - Robotics Educational Notebook
Class 5753 - Robotics Educational Poster

Robotics Intermediate Division - 9-13 years old

- Class 5756 -** Robotics Educational Display
Class 5757 - Robotics Educational Notebook
Class 5758 - Robotics Educational Poster

Robotics Senior Division - 14 years and older

- Class 5761 -** Robotics Educational Display
Class 5762 - Robotics Educational Notebook
Class 5763 - Robotics Educational Poster

Robotics Team Robotics Project

- Class 5766 -** Team Robotics Educational Display
Class 5767 - Team Robotics Educational Notebook
Class 5768 - Team Robotics Educational Poster

Computers - Intermediate and Junior Division – 7-13 years old

- Class 5771 -** Junior Computer Educational Poster
Class 5772 - Junior Computer Display Board
Class 5773 - Junior Computer Notebook

Computers - Senior Division – 14 years and older

- Class 5776 -** Senior Computer Educational Poster
Class 5777 - Senior Computer Display Board
Class 5778 - Senior Computer Notebook

Unmanned Aerial Systems - Intermediate and Junior Division – 7-13 years old

- Class 5781 -** Junior Unmanned Aerial Systems Educational Poster
Class 5782 - Junior Unmanned Aerial Systems Display Board
Class 5783 - Junior Unmanned Aerial Systems Notebook

Unmanned Aerial Systems - Senior Division – 14 years and older

- Class 5786 -** Senior Unmanned Aerial Systems Educational Poster
Class 5787 - Senior Unmanned Aerial Systems Display Board
Class 5788 - Senior Unmanned Aerial Systems Notebook

SPACE TECH PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

WOODWORK

Superintendent: Liza Poovey

1. Read "General Rules" on page 8.
2. Exhibits in Classes will be limited to one article in each class, thus no member shall exhibit more than six articles.
3. The plan from which it was constructed must be with the article exhibited. The plan may be a photocopy, the actual pattern, or a scale drawing. It must be complete and accurate to the extent that a duplicate article could be built using the plan as a guide. Please note: a set of step by step instructions is not a plan.
4. Exhibits with missing or insufficient plans will be docked one ribbon placing and the corresponding premium.
5. The use of materials other than wood should be kept to a minimum.
6. Projects that have unsecured glass, i.e., glass shelves, glass top of a coffee table, etc., should not be brought to the fair. Glass that is secured in the project, i.e., glass front of a gun case or cabinet, etc., is permissible since it cannot be easily removed.
7. Projects made from pre-cut kits are not allowed.
8. In judging woodwork articles, consideration will be given to: Workmanship, including accuracy to the plan; Design; Choice of wood; Suitability and quality of finish; and Usefulness.
9. Firearms and weapons are not to be entered or exhibited at the Kansas State Fair in the Kansas 4-H Youth Development Department.
10. Exhibitors must participate in Conference Judging during the scheduled time. If exhibitors do not participate, they will be docked one ribbon placing, and the corresponding premium.

Class 0470 - Woodwork Article for farm or shop use

Class 0471 - Lawn Furniture

Class 0472 - Household Furniture

Class 0473 - Article made from a kit

Class 0474 - Miscellaneous articles not included in above 3 classes.

Examples: doorstops, knife racks, cutting boards, bird feeders, household equipment.

Class 0475 - Piece of repaired and refinished furniture with brief explanation of the work completed, attached to the exhibit.

WOODWORK PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$2.00
Red	\$1.50
White	\$1.00

SPECIAL AWARDS

Cowley County 4-H Council will sponsor awards for each Champion and Reserve Champion. Funding for these awards is generated by proceeds from the 4-H Food Sale and Auction.

DOG SHOW

Superintendents: Rachel Hanna, Keri McEntire

1. Read "General Rules".
2. Show regulations, scoring procedures and class requirements will be followed in accordance with the latest edition of the Official Kansas 4-H Dog Show Guidelines (S-46). Copies are available at the County Extension Office.
3. No identifying uniform can be worn in the show ring.
4. Any outward abuse of a dog on the fairgrounds will result in disqualification.
5. It will be required that proof of rabies vaccination, signed by a veterinarian, be shown at show time. It is recommended that dog's distemper, hepatitis and leptospirosis vaccinations be up-to-date. Females in season will not be allowed to show. Dogs exhibiting signs of illness will be disqualified.
6. Classes marked with an asterisk (*) are ineligible for State Fair competition.
7. Baiting dogs is not allowed.
8. Once a 4-H'er scores 170 points or greater with the same dog under two different judges, the member must advance to the next obedience level at the start of the next 4-H year. At any time that the leader, parent and member agree that the 4-H'er and dog are ready to move to the next level, they may; but once that is done, they cannot regress back to a lower level.
9. State Fair Qualification: To exhibit at the Kansas State Fair, the exhibitor must qualify at any 4-H invitational or county fair show and shall present a certificate to the county Extension Office. The certificate shall be signed by the show judge and dog project leader or show superintendent at the show in which the dog qualified.

OBEDIENCE COMPETITION

A 4-H'er may enter only one dog per obedience class. See Rule 9 to enter the proper class. A score of 170 points or greater is qualified score, with at least 50% in each exercise. In case of tie, a sudden death run-off on the heel free exercise will be held.

***Class 0480 -** Subnovice A: First year handler exhibiting a first year dog. All exercises done on leash.

***Class 0481 -** Subnovice B: Experienced handler exhibiting a first year dog.

Class 0482 - Novice: For all project members who have qualified through Subnovice B and Second year project members and above.

Class 0483 - Graduate Novice: For experienced 4-H'ers with dogs who have scored at least 170 points in Novice A or Novice B.

Class 0484 - Open A: For all 4-H'ers and dogs who have qualified in graduate novice.

Class 0485 - Open B: For all 4-H'ers and dogs who have qualified in preliminary Open A.

Class 0486 - Utility A: For all 4-H'ers with a dog that qualified in Open B and passed. All exercises off leash.

Class 0487 - Utility B: For all 4-H'ers with a dog that qualified in Utility A and passed. All exercises off leash.

DIVISION - SHOWMANSHIP

Entries will be judged on fitting of dog: clean and well brushed, tone and condition of coat, healthy appearance, teeth, toenails, and eyes. Handler will be

judged on alertness, grace, and ease, coordination with dog and reaction of dog to handler with straight and even gait and movement of dog.

Class 0488 - Senior Showmanship (14-18)

Class 0489 - Intermediate Showmanship (10-13)

Class 0490 - Junior Showmanship(7-9)

*Age classifications are before January 1 of the current year.

Showmanship is based on 100 points, with 95-100 for Purple; 90-94 for Purple/Blue; 80-89 for Red; and 79 and less for white.

DIVISION - RALLY OBEDIENCE

Note: Rally Level I is on lead and for local shows only

Class 0491 - Rally Level I (on lead and for local show only)

Class 0492 - Rally Level II

Class 0493 - Rally Level III

Advancement: After receiving two qualifying scores (blue or purple) from two different judges, a rally obedience team must advance to the next level at the start of the next 4-H year.

DOG SHOW PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$3.00
Red	\$2.00
White	\$1.00

AGRICULTURAL MECHANICS PROJECTS

1. Read "General Rules".
2. All entries must have been constructed within the past two years. The project cannot have previously been exhibited at the Cowley County Fair. Painting or spot painting is not permitted on projects after arrival on fairgrounds. Projects with wet paint will be deducted five points under finish.
3. The exhibitor must attach the four following items to each project: A) entry card; B) project description, including working drawing; C) itemized bill of materials, including all purchased materials; and, D) list of skills and safety features performed. Pictures are encouraged but are not required. Items A-D shall be enclosed in a two-gallon, recloseable plastic bag and attached to the exhibit.
4. For Sale signs are not permitted on individual projects but the bill of material may contain a statement that the project is for sale.
5. Exhibitors will be limited to one exhibit each in class 0500-0502 plus one exhibit in class 0503.
6. State Fair Qualification: to exhibit an agricultural mechanics project at the Kansas State Fair, the exhibit must have been constructed in the high school ag department by an agricultural education student and a bonafide Kansas FFA member.

Class 0500 - Large Machinery and Equipment. More than \$1500 construction cost as justified in bill of material. Examples include gooseneck livestock trailer, straight tongue livestock trailer, single axle trailer (8 ft. or longer), grain trailer, round bale trailer, car trailer.

Class 0501 - Intermediate Machinery and Equipment. Between \$500 and \$1499 construction cost as justified in bill of material. Examples include cattle working equipment, pickup flatbed, log splitter, box scraper, hydraulic press.

Class 0502 - Small Machinery and Equipment. Less than \$500 construction cost as justified in bill of material. Examples include engine stand, picnic table, car ramp, feed bunk, gate, two wheel trailer, cattle clipping chute.

Class 0503 - Micro Project. Less than \$100 in construction cost as justified in bill of material. Examples include ornamental and/or recreational items.

NEW FOR 2021: A division of Ag Mechanics is available at the Kansas State Fair. To be eligible for State Fair exhibition, a project must receive a purple ribbon at the Cowley County Fair AND meet the following qualifications:

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

1. 4-H members must be currently enrolled in the Kansas 4-H STEM – Ag Mechanics (Welding) project to exhibit in this division.
2. Each exhibitor may enter one exhibit per class. Exhibits must have been constructed or repaired during the current 4-H year.
3. For the 2021 State Fair total exhibit dimensions should not exceed 3 feet high, by 3 feet wide, by 3 feet deep. Total exhibit weight may not exceed 150 pounds (movable by a team of 2 people)

4. Wheeled exhibits must utilize a breaking mechanism which prevents the exhibit from freely rolling while on display
5. Each exhibit must be free-standing or sufficiently supported by an exhibitor supplied support system that is moveable and is part of the total dimensions and weight of the exhibit as described previously. Exhibit boards should have a portable and moveable base. No exhibits may be staked to the ground for display.
6. Top heavy items should be braced or placed in a stand sufficient to prevent it from toppling over while on display.
7. Exhibits may not be bound, affixed, attached to the fair buildings, except by the superintendent or Extension Staff.
8. Painting or spot painting is not allowed on projects after arrival on fairgrounds. If wet paint is detected by judges or superintendents one ribbon placing will be deducted.
9. Repair projects having adequate original finish need not be repainted
10. Cutting surfaces, such as blades or knives, are to have a protective covering over them to prevent injury. The covering should be easily removed and reinstalled for judging. Foam "pool noodles" and multiple layers of cardboard are acceptable.
11. Exhibits that include weaponry of any kind will be disqualified. Weaponry is defined as any instrument, possession, or creation, physical and/or electrical that is intended to be used to inflict damage and/or harm to individuals, animal life, and/or property.
12. If the exhibit is powered by flammable liquids (gas, propane, kerosene, etc.) the fuel tank and lines should be drained and allowed to dry, to avoid spills and potential fires
13. Electric powered (battery, corded, solar, or alternative energy) should have a primary shutoff or disconnect switch
14. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's exhibit, at the judges' discretion, will receive a deduction in ribbon placement or a participation ribbon
15. The exhibitor's name(s) and county must be tagged or labeled in a prominent location on the display
16. Each exhibit must include an Ag Mechanics information packet. Entry of just a packet without an accompanying exhibit is not a sufficient exhibit.
17. Each exhibitor is required to complete the "4-H STEM Ag Mechanics Exhibit Information Form" which is available through your local K- State Research and Extension office or at www.STEM4KS.com. This form must be attached to the outside of a 10" x 13" manila envelope. Do not tie the envelope to the exhibit.
18. Each exhibit information packet should include the following items:
 1. Bill of materials for the project with associated costs, scrap items used may be listed as having a \$0.00 cost.
 2. 1 to 5 pages of photos showing work on the exhibit, preferably from a beginning state to final or completed state
 3. If appropriate schematics or working drawings relating to the creation or repair
 4. If appropriate operating instructions
19. Additionally, exhibitors may create an optional video (not required) about their project showing its operation and the work they have done. This allows judges to get a better understanding of the exhibit and allows the youth the opportunity to fully demonstrate their exhibit. The video should be no longer than 8 minutes and should be placed on a USB drive. These videos may also

be considered for inclusion in a running video loop in the STEM area at the state fair after review by judges, superintendent(s), and extension staff. Adult guardians must complete the video release included with the exhibit form. If the release is not completed the video will not be included in the video loop on display in the STEM area at the Cowley County Fair.

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

This level is designed for youth with little to no exposure in the project area so that they can gain an understanding of basic principles and methods in the given area.

Class 5550 Welding display board – a 3 foot by 3 foot display board with different pieces of metal attached illustrating different types of welds, each weld being labeled

Class 5551 Level 1 Welding ag repair – repair of ag equipment with welding

Class 5552 Level 1 Welding ag fabrication – creation of new ag equipment with welding

Class 5553 Level 1 Welding general repair – repair of non-ag equipment with welding

Class 5554 Level 1 Welding general fabrication – creation of non-ag equipment with welding

Class 5555 Level 1 Welding artistic fabrication – creation of artistic or interpretive pieces with welding

Class 5556 Level 1 Brazing repair

Class 5557 Level 1 Brazing fabrication

Class 5558 Smithing display board – a 3 foot by 3 foot display board with different pieces of forged metal attached illustrating different forms, each form being labeled

Class 5559 Level 1 Smithing – A design forged with at least one formed element (twists or spirals for example)

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

This level is designed for youth some experience in the project area allowing them to expand on common principles and methods in the given area.

Class 5560 Level 2 Welding ag repair – repair of ag equipment with welding

Class 5561 Level 2 Welding ag fabrication – creation of new ag equipment with welding

Class 5562 Level 2 Welding general repair – repair of non-ag equipment with welding

Class 5563 Level 2 Welding general fabrication – creation of non-ag equipment with welding

Class 5564 Level 2 Welding artistic fabrication – creation of artistic or interpretive pieces with welding

Class 5565 Level 2 Brazing repair

Class 5566 Level 2 Brazing fabrication

Class 5567 Level 2 Smithing – A design forged with at least two different formed elements (twists and spirals for example)

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

This level is designed for youth with vast experience in the project area allowing them to master common principles and methods and expand on advanced techniques in the given area.

Class 5570 Level 3 Welding ag repair – repair of ag equipment with welding

Class 5571 Level 3 Welding ag fabrication – creation of new ag equipment with welding
Class 5572 Level 3 Welding general repair – repair of non-ag equipment with welding
Class 5573 Level 3 Welding general fabrication – creation of non-ag equipment with welding
Class 5574 Level 3 Welding artistic fabrication – creation of artistic or interpretive pieces with welding
Class 5575 Level 3 Brazing repair
Class 5576 Level 3 Brazing fabrication
Class 5577 Level 3 Smithing – A design forged with at least three different formed elements (twists, spirals, and bulbs for example)

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

This level is designed for youth substantial experience in the project area allowing them to master advanced techniques in the given area.

Class 5580 Level 4 Welding ag repair – repair of ag equipment with welding
Class 5581 Level 4 Welding ag fabrication – creation of new ag equipment with welding
Class 5582 Level 4 Welding general repair – repair of non-ag equipment with welding
Class 5583 Level 4 Welding general fabrication – creation of non-ag equipment with welding
Class 5584 Level 4 Welding artistic fabrication – creation of artistic or interpretive pieces with welding
Class 5585 Level 4 Brazing repair
Class 5586 Level 3 Brazing fabrication
Class 5587 Level 4 Smithing – A design forged with at least four different formed elements (twists, spirals, and bulbs for example)

AGRICULTURAL MECHANICS PREMIUMS

Champion	Ribbon
Reserve Champion	Ribbon
Purple/Blue	\$5.00
Red	\$4.00
White	\$3.00

CLOVERBUDS

Superintendent: Stephanie Mackey

1. Cloverbuds is a non-competitive division for Cloverbuds members ages 5 and 6. Each exhibitor will receive a participation ribbon. No premiums will be given in the CloverBuds division.
2. CloverBuds will be allowed to showcase one CloverBuds activity (foods and nutrition, clothing buymanship, arts and crafts, photography, plant science, heritage arts, pets).
3. Exhibitors will conference with the judge to discuss their project experience Saturday, August 3 at 12:30 p.m. in Barn 4.

***Class 0510 -** Cloverbuds Clothing Buymanship (Cloverbuds can model at public review on July 20)

***Class 0511 -** Cloverbuds Foods and Nutrition

***Class 0512 -** Cloverbuds Visual Arts (may include ceramics, arts and crafts, or sketching and drawing)

***Class 0513 -** Cloverbuds Pets (Amphibians - Frogs & Toads, Ant Farms, Cats, Dogs, Fish, Gerbils, Guinea Pigs, Hamsters, Mice, Parakeets, Rabbits, Rats)

***Class 0514 -** Cloverbuds Plant Science

***Class 0515 -** Cloverbuds Photography

***Class 0516 -** Cloverbuds Heritage Arts

FAMILY AND CONSUMER SCIENCES JUDGING CONTEST

1. Open to any bonafide 4-H member in the county regardless of project enrollment.
2. Members participate as individuals.
3. Age groups will be as follows: Junior 4-H division (age 7-9); Intermediate 4-H division (age 10-13); Senior 4-H Division (age 14 and over).
4. Two summer contest options are available - virtual (July 5-19, 2021) and in person (July 20, 2021, 9:00 a.m. - 12 p.m. during 4-H Clothing and Fashion Revue Judging at Cowley College's Brown Center, 215 S 2nd Street, Arkansas City).
5. Youth who participate in at least 2 contests (either in person or virtual) may qualify for the State Fair judging team (ages 9-18).

LIVESTOCK JUDGING CONTEST

1. Open to any bonafide 4-H or FFA member in the county. Members need not be enrolled in livestock project to participate.
2. A club or chapter may enter as many teams of 3 or 4 members, as they desire. The highest three scores will be used to determine the team scores.
3. Age groups will be as follows: Junior 4-H division (age 7-13); Senior 4-H Division (age 14 and over).
4. Registration will be at 8:00 a.m. on Monday in the livestock show arena.
5. Four to six classes including beef cattle, sheep, meat goats and swine will be judged. Oral reasons will be given.
6. Members may participate as individuals if they are not a part of a team.

SPECIAL AWARDS

Livestock Judging

****Plaques sponsored by American AgCredit****

AGRICULTURAL CHALLENGE OF CHAMPIONS

Monday, August 2, 2021 Livestock Show Arena, 11:00am

INTENT: To recognize an outstanding Cowley County 4-H or FFA agriculture/livestock-oriented youth.

1. One individual will be selected to represent Cowley County at the Kansas State Fair Agricultural Challenge of Champions.
2. Contestants must be at least 16 years of age but not over 19 years of age before January 1.
3. The Superintendents of the contest, in cooperation with the contest committee, will be in charge of the contest. They shall have the authority for the interpretation of the policies.
4. The contestants will be furnished with placing cards and any other necessary forms. No contestant will be allowed to have books, notes, or pamphlets during the contest.
5. While contest is in session there shall be NO COMMUNICATION among contestants or anyone other than the group leader.

Format of Contest and Point Value

1. Written test with 25 questions concerning total agricultural/livestock industry. 50 points
2. Identification of 10 pieces of livestock equipment. 40 points
3. Identification of 25 breeds of beef cattle, dairy cattle, sheep, hogs, goats, & horses. 50 points
4. Identification of 10 concentrate and/or roughage. 40 points
5. Identification of 10 retail cuts of meat. 40 points
6. Identification of 10 common crops (either plant or seed). 20 points
7. Identification of 10 common weeds (plant only). 20 points
8. Identification of 5 common agronomic items including deficiency symptoms, fertilizers, inoculants, ag lime, soil probes, etc... 10 points
9. Written test with 25 questions on farm equipment. 50 points
10. Written test with 25 questions on farm management. 50 points
11. Written test with 25 questions on general agriculture. 50 points
12. Ag Mechanics - Identification of tractor parts. 40 points
13. Five minute, impromptu presentation on agricultural subject provided. 200 points

The overall individual ranking shall be determined by the total of each contestant's points earned from the contest. The Cowley County Fair Association will award \$200 to the winner, to be awarded if the winner participates in the Kansas State Fair Agricultural Challenge of Champions Contest.