

4-H COMPETITION GUIDE



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4-H COMPETITION GUIDE**Schedule of 4-H Activities**

HOUR	EVENT	LOCATION
Tuesday, September 4 12 a.m. (midnight)	Deadline for request for admission for the Livestock and Dairy Judging Contest: Email Founda Dutton agclerk@okstatefair.com .	
Friday, September 7 by 5 p.m.	Should receive email with the temporary Gate 8 passenger vehicle access pass for Livestock and Dairy Judging Contests.	
Monday, September 10 12 a.m. (midnight)	Deadline for online entries. Entries must be made prior to arrival at OSF.	
Tuesday, September 11 11 a.m.	OVA Giant Pumpkin weigh-in	Oklahoma Expo Hall #1
Wednesday, September 12 7:30 a.m.	Entry of 4-H exhibits begins	Oklahoma Expo Hall #1
Thursday, September 13 9 a.m. 10 a.m.	Farm Bureau Livestock Judging Registration Farm Bureau Livestock Judging Contest	Barn 3 Barn 8
Monday, September 17 9 a.m. 10 a.m.	OSF Dairy Judging Registration OSF Dairy Judging Contest	Barn 3 Barn 3
Saturday, September 22 11 a.m.	4-H Cupcake Wars	Oklahoma Expo Hall #1
Sunday, September 23 2 p.m.	4-H Edible Arrangements Contest	Oklahoma Expo Hall #1
Monday, September 24 8:30 a.m. – noon	Release of 4-H exhibits	Oklahoma Expo Hall #1

About 4-H

- 4-H Club work in Oklahoma was first exhibited at the Oklahoma State Fair (OSF) in 1910, which makes this the 107th year of 4-H involvement. The Fair exhibits have been an important part of the 4-H Youth Development Educational Program, allowing young people the incentive to achieve and then to be recognized for outstanding achievement.
- The major goal of 4-H is the individual development of youth in personal, leadership and positive citizenship skills expressed throughout life in the home, school, state, nationally and internationally.

- The 4-H exhibits and activities at OSF are planned to reflect the many phases of 4-H and the use of projects in the development of boys and girls. The public is invited to visit the 4-H exhibits to observe the accomplishments of 4-H youth.

Exhibitor Eligibility

- Exhibition in this department is limited to Oklahoma 4-H members who have been enrolled and actively participating in the program for a minimum of 30 days prior to this state fair and meet the following requirements.
- Each county must enter and exhibit all members' entries in sections 4300-4325 at the one (1) State Fair they designate. Unless the State 4-H Office is notified by July 1, it is understood the county will exhibit at the same State Fair as the previous year.
- All 4-H exhibits must be entered by county extension educators.
- Members should be enrolled in the project area to exhibit.
- The 4-H member should enter the class that matches his/her 4-H age – which is their age before September 1 of the calendar year. **NEW All exhibitors must be at least 8 years old AND in the third grade by September 1, 2018 to exhibit.**
- All exhibits must have been made and completed by the exhibitor during the last year, and cannot be entered more than once, except for classes that are collections and that are added to successive years.
- For each class, entries are limited to one (1) per individual and also one (1) per county. For other pertinent information relative to project being exhibited, refer to specific sections, classes and respective project curriculum.
- 4-H members who enter crops and horticulture must be able to prove that the member produced the crops during the current year.

Responsibility for all exhibits

- 4-H exhibits at OSF are entered and displayed at the risk of the exhibitor. The 4-H program of Oklahoma State University, in cooperation with the board of directors, OSF accepts exhibits and will exercise due care to protect them. However, neither the 4-H program nor OSF can accept responsibility for loss or damage to any exhibit due to the conditions imposed by large crowds, the arrangement of buildings where exhibits are housed or the large number of exhibits. Members who have exhibits of great sentimental and/or monetary value should carefully consider whether such exhibits should be exposed to the hazards of OSF.

Exhibits Display

- The 4-H superintendents reserve the right to display only first thru fifth place exhibits, or less, as space allows.

Copy-Written material and referencing sources

- All 4-H exhibits should be the original work of the 4-H member. When information is taken from books, publications, magazines or from the internet, it should be expressed in the 4-H members own words. The 4-H member must reference the source of the information by using an asterisk (*) or a number, if more than one, and name the actual source at the end of the paper, poster or educational display following an asterisk or corresponding number in text. .
- No copyrighted or trademark protected written or visual material (pictures, photos, drawings, illustrations, etc.) should be used from books, magazines, publications, professional photographers or from the internet without permission from the original creator. If the 4-H member applies for and is granted permission to use a copyrighted or trademark protected item, a copy of the permission form or letter needs to be attached to the back of the exhibit and properly cited with an asterisk (*) or number. If an item (picture, photo drawing, illustration, etc.) is not protected and is used, its source

must be cited and referenced by using an asterisk (*) or number, and the source information placed at the end of the paper, poster or educational display, following an asterisk or corresponding number.

Education Displays

- All educational displays must have stable, freestanding backs with sides attached. This includes Sec. 4301 and educational displays in specific project areas. See the class description for size requirements. Educational displays must be 3-dimensional (3D). Note: the sizes indicated in specific classes is the maximum table space allowed when sides are extended.
- Do not include valuables, food items that will spoil or potentially harmful products (i.e.: aspirin, cleaning products, chemicals) in any educational display. Neither OSF nor the 4-H program can accept responsibility for loss of valuables. Potentially harmful products will be discarded.
- Text of displays should be readable from at least 10 feet away.

Posters

- For display purposes, exhibitors are encouraged to laminate all posters or cover them with clear plastic film. Posters must be signed and dated on the back with a permanent marker before laminating. If not marked, the judging committee may mark or punch. All posters must be flat (no 3 dimensional posters).
- Text of posters should be readable from at least 10 feet away.
- Posters in section 4300 **MUST** include the 4-H clover, or mention 4-H. Posters in other sections/classes are encouraged, but NOT required, to include the 4-H clover or mention 4-H, unless requested in the section/ class description.

Signing and Dating Exhibits

- Exhibits should be signed and dated, in an inconspicuous location, with a permanent marker, if material permits. Some exhibits that should be signed and dated are posters; most expressive arts, including: fine art, ceramics, woodworking and woodcrafts, herbarium cards, seed boards, forestry exhibits and model rocketry. The judge or judging committee may permanently mark the exhibit with the State Fair and year (i.e.: OSF 2018), if not signed and dated. Effort will be made to mark it in an inconspicuous place.

Required Trademark Designation for use of 4-H Clover

- When using the official clover with H's, the tail should curve to the right and the words 18 U.S.C. 707 must appear under the lower right leaflet, unless poster and clover are hand drawn. For more information on proper use of the 4-H clover please refer to <http://4h.okstate.edu/educators/4-h-name-and-emblem>.

COMMUNICATION AND EXPRESSIVE ARTS

Poster-Art Exhibit (Division 4300)

- Poster must be constructed on poster board 14" x 22" (1/2 of a poster board). They may be horizontal or vertical. Poster may be produced by any medium — watercolor, ink, crayon, acrylic, charcoal, collage, computer, etc. Posters must be flat. Do not use 3 dimensional pieces on posters. Posters will be judged on: educational idea portrayed, public appeal and creative and original ability presented. Copyrighted, trademarked cartoon characters or other designs must not be used due to copyright restrictions.
- For display purposes, exhibitors are encouraged to laminate or cover all posters with clear plastic film.

- Posters must be signed and dated on the back in permanent marker before laminating. If not marked the judging committee may mark or punch. Text of posters should be readable from at least 10 feet away.
- Each county is limited to one (1) poster per class. Individual 4-H member is restricted to those exhibits designed for his or her age group.
- The 4-H member's name, age before September 1 and county should be in the upper left hand corner on the back of the poster. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Posters in this section must include 4-H clover or mention 4-H. See page 2 for guidelines when using the 4-H clover.
- Award:
 - Ribbons will be placed to top 10 in each class.
 - Premium:

First Place: \$7	Second Place: \$5	Third Place: \$3
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- Classes:
 - Beginner division – ages 8 to 11
 01. 4-H promotional poster designed to recruit 4-H members, volunteers, promote any 4-H event or project.
 02. Poster designed to promote 4-H using the national campaign, “4-H Grows Here.”
 03. Poster recognizing or documenting one (1) of the following: Oklahoma 4-H history during one (1) decade or the evolution of a particular 4-H project area over the decades.
 - Intermediate division - ages 12 to 14
 04. 4-H promotional poster designed to recruit 4-H members, volunteers, promote any 4-H event or project.
 05. Poster designed to promote 4-H using the national campaign “4-H Grows Here.”
 06. Poster recognizing or documenting one (1) of the following: Oklahoma 4-H history during one (1) decade or the evolution of a particular 4-H project area over the decades.
 - Advance division - ages 15 & over
 07. 4-H promotional poster designed to recruit 4-H members, volunteers, promote any 4-H event or project.
 08. Poster designed to promote 4-H using the national campaign “4-H Grows Here.”
 09. Poster recognizing or documenting one (1) of the following: Oklahoma 4-H history during one (1) decade or the evolution of a particular 4-H project area over the decades.

Education Booth Display (Division 4301)

- Each county is eligible to enter one (1) educational booth per class. This must be an in-depth look at a 4-H project or projects. Space for the booth is 3' deep, 4' wide, with sides extended for display, and 4' high. There will be no solid dividers between booths, use lightweight materials for ease in transporting. Display must be freestanding. Models, photographs, posters or other means for display may be used. An individual, or group from a county, may prepare display. Judging criteria will be: effectiveness of the message, appropriateness to the theme and interest and attractiveness to the public.
- Display must focus on **one (1)** of the following and be suitable for display at a local business during National 4-H Week or at another time:
 - Promotion of a specific 4-H project, member recruitment, current youth issue, event, etc.
 - Community service
 - The national campaign “4-H Grows Here”

- Exhibits in this section must include 4-H clover or mention 4-H. See page 2 for guidelines when using the 4-H clover.
- **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Do not include: valuables, food items that will spoil or potentially harmful products in any educational display. Neither OSF nor the 4-H program can accept responsibility for loss of valuables. Potentially harmful products will be discarded.
- Award:
 - Ribbons will be placed to top 10 in each class.
- Class 01 premium scale:

○ First Place: \$75	Second Place: \$50	Third Place: \$25
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- Class 02 – 03 premium scale:

○ First Place: \$60	Second Place: \$40	Third Place: \$20
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- **Classes:**
 01. Educational Booth Display (other than community service or “4-H Grows Here”.) Display may be project area, member recruitment, current youth issue, event, etc. Community Service Booth Display – Sharing about a community service that a 4-H member or county 4-H group has done. Should include pictures, examples, and scope of projects. The impact on others will be an added criterion for judging. Project should be the extension of a 4-H project area.
 02. Community Service Booth Display – Sharing about a community service that a 4-H member or county 4-H group has done. Should include pictures, examples, and scope of projects. The impact on others will be an added criterion for judging. Project should be the extension of a 4-H project area.
 03. Display using the national campaign “4-H Grows Here”

Photography (Division 4302)

- These exhibits consist of photos taken by the individual exhibitors. A photo can be entered only one (1) year.
- Individuals can exhibit in only one (1) level and may enter only one (1) exhibit per class in that level.
 - Level 1 is for members who have beginning skill level,
 - Level 2 is for those who have intermediate skill level and
 - Level 3 is for those who have advanced skill level.
- All ages within each level are before September 1 of the current calendar year. **NEW** All exhibitors must be at least 8 years old. They will be judged separately in two (2) age groups: junior – ages 8 to 13, and seniors – ages 14 & over.
- **Digital photos:** adjustments to digital photographs are limited to color and contrast adjustments, cropping, gray scaling, exposure adjustments, and red eye reduction - with the exception of Classes 25 to 28.
- **Prints:** black and white, or color prints may be exhibited. Prints must be no smaller than 4”x6” and no larger than 5”x7”, except when panoramic prints are used, for all classes except 05, 10, 14, 18 and 22 where prints may be up to 8”x10”. Prints should be printed on photo-quality paper. Judges take print quality into consideration. Photos will be disqualified if in a frame.
- **Titles, captions & other required information:** On the front of the board, there must be: a title (i.e. My Trip to the Zoo) and caption for each photo giving the viewer more information. The back of each board must include the exhibitor’s name, county, number of years in the 4-H photography project, camera type and megapixels, if it is a digital camera.
- **Boards:** prints must be securely attached to the surface of a single black or white 14”x14” poster board, foam core or mat board. Photos will be disqualified if on regular printing paper or cardstock. No double matting, use of multiple layers or more than one (1) color. The entire print must be seen and cannot be masked in any way.

- Awards
 - Ribbons will be placed on the top 10.
- Premium scale:
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - Level 1: Focus on Photography
 - For members who have a beginning skill level*
 - Junior
 01. Four (4) photos, one (1) from each of the following categories: people, animals, plant life and scenery.
 02. Four (4) photos of people doing different things, showing a variety of activities, camera angles and lighting choices.
 03. Four (4) otherwise outstanding photos showing common mistakes in picture taking. The caption for each print must correctly identify what is wrong and provide an appropriate solution to prevent the mistake.
 04. Series of four (4) photos telling a story or illustrating a single event.
 05. Best individual photo made this year.
 - Senior
 06. Four (4) photos, one (1) from each of the following categories: people, animals, plant life and scenery.
 07. Four (4) photos of people doing different things, showing a variety of activities, camera angles and lighting choices.
 08. Four (4) otherwise outstanding photos showing common mistakes in picture taking. The caption for each print must correctly identify what is wrong and provide an appropriate solution to prevent the mistake.
 09. Series of four (4) photos telling a story or illustrating a single event.
 10. Best individual photo made this year.
 - Level 2: Controlling the Image
 - For members who have intermediate skill level*
 - Junior
 11. Four (4) photos showing good composition, i.e.: subject placement, framing, contrast or perspective. The caption for each photo or the title of the board must explain the ideas being illustrated.
 12. Four (4) action photos showing use of film speed or digital ISO, shutter speed and aperture (if the camera is adjustable).
 13. Four (4) photos showing effect (lighting, media, techniques and processes). The caption for each photo or the title of board must explain the ideas being illustrated.
 14. Best individual photo made this year.
 - Senior
 15. Four (4) photos showing good composition, i.e.: subject placement, framing, contrast or perspective. The caption for each photo or the title of the board must explain the ideas being illustrated.
 16. Four (4) action photos.
 17. Four (4) photos showing effect (lighting, media, techniques and processes). The caption for each photo or the title of board must explain the ideas being illustrated.
 18. Best individual photo made this year.
 - Level 3: Mastering Photography
 - For members who have advanced skill level*
 - All ages

19. Four (4) photos showing members' knowledge of one (1) of the following: different lenses, photo lamps, existing light, filters or special effects. The caption for each photo or the title of the board must explain the idea(s) being illustrated.
 20. Four (4) outstanding "people" pictures.
 21. Four (4) landscapes or nature photos.
 22. Best individual photo taken this year.
- **Digitally Adjusted Photos**
 - Exhibit must include both the original photo labeled "original photo," the digitally adjusted photo labeled "adjusted photo," with a short summary of what was done (cropping, red-eye removal, color or contrast adjustment, gray scaling, exposure adjustment, etc.). Must be on a 14"x14" single black or white poster board, form core or mat board.
23. Junior
24. Senior
 - **Digitally altered photographic illustration taken with a digital camera by the exhibitor**
 - Alterations are beyond common photography techniques of red eye removal, cropping, etc. Exhibit includes a print of the original photograph labeled "original photo," and the digitally altered image labeled "photographic illustration." Must be on a 14"x14" single black or white poster board, form core or mat board. Attach up to .5 page of written explanation of the alterations to the back of the exhibit.
25. Junior
26. Senior
 - **Digitally altered scanned image**
 - Exhibit must include the original image labeled "original image," and the digitally altered image labeled "altered image." Alterations are beyond common photography techniques of red eye removal, cropping, etc. Must be on a 14"x14" single black or white poster board, form core or mat board. Attach up to ½ page of written explanation of alterations to the back of the exhibit. Trademark images may not be used.
27. Junior
28. Senior

Expressive Arts (Division 4303)

- One (1) exhibit per county per class. Individual members may enter only one (1) exhibit per class.
- **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018. They will be judged separately in two (2) age groups: junior – ages 8 to 13, and seniors – ages 14 & over.
- Exhibits in all classes are limited to items that cannot be exhibited in other sections. Exhibits must be permanently signed and dated in an inconspicuous location, if size and material permits. Ceramics should be signed before firing. The judge or judging committee may mark exhibit with the Fair and year (i.e.: OSF 2018), if not signed and dated. Effort will be made to mark in an inconspicuous place.
- Exhibits will be displayed as space allows.
- **Paintings, drawings and other items to be hung MUST have a hanger attached or they may not be displayed.**
- Awards
 - Ribbons will be placed on the top 10.
- Premium scale
 - First place: \$7 Second place: \$5 Third place: \$3.
- Classes:
 01. Jr. Fine Art: *Pencil, charcoal, pastels, chalk, ink*
 02. Sr. Fine Art: *Pencil, charcoal, pastels, chalk, ink*

03. Jr. Fine Art: *Watercolor*
04. Sr. Fine Art: *Watercolor*
05. Jr. Fine Art: *Oil or acrylic*
06. Sr. Fine Art: *Oil or acrylic*
07. Jr. Ceramics: *Glazed, maximum of one (1) piece*
08. Jr. Ceramics: *Glazed, maximum of one (1) piece*
09. Jr. Ceramics: *Stained, maximum of one (1) piece*
10. Jr. Ceramics: *Stained, maximum of one (1) piece*
11. Jr. Pottery: *Original design made from clay using a process of hand molding or on a potter's wheel*
12. Sr. Pottery: *Original design made from clay using a process of hand molding or on a potter's wheel*
13. Jr. Print Process: *Article Block printing and other printing methods*
14. Sr. Print Process: *Article Block printing and other printing methods*
15. Jr. Nature Craft: *Article made from natural materials including weaving or basket making.*
16. Sr. Nature Craft: *Article made from natural materials including weaving or basket making.*
17. Jr. Bead Craft: *Article*
18. Sr. Bead Craft: *Article*
19. Jr. Leathercraft: *Kit*
20. Sr. Leathercraft: *Kit*
21. Jr. Leathercraft: *Original Design*
22. Sr. Leathercraft: *Original Design*
23. Jr. Hand Crafted: *Wax Candle*
24. Sr. Hand Crafted: *Wax Candle*
25. Jr. Hand Crafted: *Gel Candle*
26. Sr. Hand Crafted: *Gel Candle*
27. Jr. Puppet
28. Sr. Puppet
29. Jr. Paper Craft
30. Sr. Paper Craft
31. Jr. Plastic Craft: *Includes but not limited to Lego™ Art. If Lego™ Art is entered, it must be glued.*
32. Sr. Plastic Craft: *Includes but not limited to Lego™ Art. If Lego™ Art is entered, it must be glued.*
33. Jr. Duct Tape Craft
34. Sr. Duct Tape Craft
35. Jr. Miscellaneous: *limited to items that cannot be entered in any other class.*
36. Sr. Miscellaneous: *limited to items that cannot be entered in any other class*

SCIENCE AND TECHNOLOGY

Technology Exhibits (Section 4304)

- The 4-H technology exhibits are open to all ages. They will be judged separately in two (2) age groups: junior – ages 8 to 13, and seniors – ages 14 & over.
- Every exhibit must be labeled on the back with the following information: name, club, county, age before September 1 and date poster or exhibit was made. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Copy written material such as professional photos, books, publications or items on the internet should not be used as original.
- Exhibits displayed as posters must be constructed on poster board 14"x22" (½ of a poster board). They may be horizontal or vertical. Posters will be judged on: educational idea portrayed, public

appeal, and creative and original ability presented. Copyrighted, trademarked cartoon characters or other designs must not be used due to copyright restrictions.

- For poster displays purposes, exhibitors are encouraged to laminate or cover all posters with clear plastic film. **Text of posters should be readable from at least 10 feet away.**
- Promotional exhibits in this section must include 4-H clover or mention 4-H. See page 2 for guidelines when using the 4-H clover.
- Awards
 - Ribbons will be awarded to the top 10.
- Class 01 – 34 premium scale
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - Flat flyer (one-sided) designed by the exhibitor to promote a club or county 4-H educational program or activity.
 - Computer generated flat flyer (8½"x14" or 8½"x11"). Flat flyers should be securely attached to an appropriately sized poster board.
 - 01. Junior
 - 02. Senior
 - **Brochure, card or invitation related to 4-H**
 - May be double-, tri-, or four-fold measuring 8½"x11" or 8½"x14" before folding. Attach two (2) flat copies of the brochure - one side showing the front and the other side showing the back - to an appropriately sized poster board no larger than 14"x22" – ½ of a poster board. Attach a large envelope to the back of the poster board and insert a folded copy of the brochure.
 - 03. Junior
 - 04. Senior
 - **PowerPoint Presentation related to 4-H**
 - Presentation should either promote 4-H or educate about a 4-H project. Presentations should include an official 4-H clover or mention 4-H. Presentation entry includes a printout of at least five (5) slides and script/presentation notes in a folder or notebook. Include presentation file in a labeled CD, in an envelope. All PowerPoint presentations should be mounted on a freestanding display board not to exceed 3'x3' when the sides are extended for display. Commercially available "Science Fair" presentation boards are encouraged. First place exhibits in each class will be displayed. Second place and sub-sequential exhibits may be displayed based upon space available and judges'/committees' discretion.
 - 05. Junior
 - 06. Senior
 - **Digital Media**
 - Submit a video, maximum of one (1) minute, designed for social media use on STEM projects. The video must be in an .MP4 format and submitted on a flash drive. Video may only contain first names of the participants and participants must have a signed media release form on file in their county 4-H office (found on the 4-H enrollment card.)
 - 07. Junior
 - 08. Senior

Global Positioning Systems (GPS)/Geographic Information Systems (GIS) Exhibits

- 4-H youth will learn about Geographic Information Systems (GIS) concepts by collecting data on a location, describing the attributes.
- Youth will learn about geospatial technology applications and future career opportunities by working with local government agencies and project partners in their own communities.

- Increased youth involvement in community service and awareness projects that impact local communities by enhancing economic and community development.
- The 4-H GPS/GIS exhibits will be judged in two (2) age groups: juniors – ages 8 to 13, and seniors – ages 14 & over.
- Every exhibit must be labeled on the back with the following information: name, club, county, age before September 1 and date poster, map or exhibit was made. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Posters/maps must be 14"x22" – ½ of a poster board. Exhibitors are encouraged to laminate all posters or cover them with clear plastic film. Maps may be affixed to poster board. The map itself doesn't have to be the full 14"x22".
- Displays must be free standing and not be larger than 3'x3' (width x depth) with sides extended for display.
 - 09. Junior – Draw a Scientist Poster
 - 10. Senior – Careers in STEM Poster
- **Display illustrating how GPS works,**
 - Including the user, control and space segments of the system.
 - 11. Junior
 - 12. Senior
- **Geocache box**
 - Exhibit would include geocache box with contents, description & photograph of the location in which the box will be located.
 - Check geocaching.com for instructions on placing and describing.
 - 13. Junior
 - 14. Senior
- **Hand drawn map**
 - Map can either be informational or directional. Attach a one (1)-page explanation of the purpose for the map.
 - 15. Junior
 - 16. Senior
- **Computer generated map**
 - Map can be either informational or directional. Attach a one (1)-page explanation of the purpose for the map.
 - 17. Junior
 - 18. Senior

Group Projects

Developed by two (2) or more 4-H members

- **Computer generated map**
 - Map can be either informational or directional. Attach a one (1)-page explanation of the purpose for the map.
 - 19. Junior
 - 20. Senior
- **Club or County Mapping:**
 - Displays must be freestanding and are limited to 3'x3' (width x depth) when sides are extended. Commercially available "Science Fair" presentation boards are encouraged. It should show and explain the project in detail including printouts of maps, pictures of the

project being done, who was collaborated with and how the project results have and will be utilized. Exhibit must be labeled on the back with the following information for all participating members: name, club, county, age before September 1, and date poster or exhibit was made.
21. Club or County Mapping Project Display

4-H ROBOTICS

- The goal of the 4-H robotics program is for 4-H members to explore science, technology and engineering through designing and building a functioning robot. The robot can be either programmable or remote controlled. The robot can be created by an individual or a group.
- The 4-H robotics exhibits are open to all ages. They will be judged separately in two (2) age groups: junior – ages 8 to 13, and senior – ages 14 & over. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Every exhibit must be labeled on the back with the following information: name, club, county, age before September 1, and date poster or exhibit was made.
- Attach a 3"x5" index card to each robot/exhibit, explaining:
 - Construction material, how constructed and goal of project.
 - Year in project
 - Age of member
 - Whether or not made from kit
 - Other pertinent information
- Each exhibit should have a one (1)-page report explaining the function, purpose and construction of the robot.
- Displays must be free standing and are limited to 3'x3' (width X depth) when sides are extended for display.
 - **Programmable Robot**
 - 22. Junior
 - 23. Senior
 - **Remote-controlled Robot**
 - 24. Junior
 - 25. Senior
 - **Display with photographs and explanation of a member-developed robot which is not available for exhibit.**
 - 26. Junior
 - 27. Senior
 - **Projects Group Developed by two (2) or more 4-H members working together (Include all 4-H members' information involved on index card)**
 - 28. Programmable Robot
 - 29. Remote-controlled Robot
 - 30. Display with photographs and explanation of a member developed robot which is not available for exhibit

SIMPLE MACHINES

- **Marshmallow catapult challenge design task**
 - Design a trebuchet-style swing arm catapult. It may be similar to a teeter-totter or swing set. The beam (arm) is able to swing (go up and down).
 - The arm of the catapult must be adjustable from the center to an offset. One (1) side of the beam is longer from center pivot point.
 - Use at least five (5) different types of materials or parts (craft sticks, brads, dowels, etc.).

- Use weights and gravity as the power source.
- Launch a marshmallow at least 6 feet. Reference: National 4-H Curriculum, Junk Drawer Robotics, Level I
- Attach a 3"x5" note card. Explain how you built and tested your catapult. Chart your marshmallow launches.
 - 31. Junior
 - 32. Senior

- **Wind turbine**

- Use the 2011 National Science Experiment Youth Guide to design, build and test your own wind generator. Wind generators must be homemade and not built from a kit. Test your turbine with a multi meter and report your results on a 3"x5" card attached to your turbine.
- Reference: <http://www.4-h.org/4-h-national-youth-science-day/past-experiments-archives/>.
 - 33. Junior
 - 34. Senior

Science Discovery Projects (Division 4305)

- The goal of this project and exhibit is to allow 4-H members to:
 - Use the scientific method to gain an understanding of how things work and the variables affecting them.
 - Take an open and creative approach to problem solving.
 - Learn that a successful outcome is based not on personal opinion but on scientific fact.
 - Improve written and visual communication skills
- 4-H members are encouraged to use their 4-H projects as the basis for their scientific research and discovery project. Exhibits should relate to one of the following topics:
 - Behavioral and Social Sciences
 - Biochemistry, Medicine, and Health Sciences
 - Botany and Zoological Sciences
 - Computer Science
 - Earth and Space Sciences
 - Engineering
 - Environmental Sciences
 - Mathematics
 - Physical Sciences
- A few resources for finding project ideas are:
 - The WWW Virtual Library: Science Fairs - <http://physics.usc.edu/~gould/ScienceFairs/>
 - Information about Oklahoma Science Fairs - <http://ossef.ecok.edu/>
- Displays must be free standing and are limited to 3'x3' (width x depth) when sides are extended. Commercially available "Science Fair" presentation boards are encouraged.
- Counties may enter one (1) exhibit in each class.
- First place exhibits in each class will be displayed. Second place and sub-sequential exhibits may be displayed based upon space available and the judges' discretion.
- **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Awards
 - Ribbons will be awarded to the top 10.
- Class 01 – 04 premium scale:
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - 01. Beginning Division (ages 8 to 11) - A display illustrating the project.
 - 02. Intermediate Division (ages 12 to 14) - A display with an accompanying report of approximately two (2) typewritten pages.

03. Advanced Division (ages 15 & over) - A display and a written report about the project that includes an interview with a scientist or someone who works in the area that is being studied. Reports should be three to five (5) pages in length.
04. Team Exhibit (All Ages) – Team may include a maximum of three (3) members. - A display and a written report about the project. It is recommended that it include an interview with a scientist or someone who works in the area that is being studied. Reports should be three to five (5) pages in length.

CONSUMER/FAMILY SCIENCES

Fabrics and Fashion (Section 4306)

- The skill mastery sheet (<http://4h.okstate.edu/literature-links/lit-online/family-consumer-science/fabric/skill-mastery-sheets>) is an education tool to guide project construction for fair exhibits.
- The projects have been carefully selected, and directed, for members to investigate and learn specific skills and information. The end product is being evaluated on the skills “you learned,” as identified on the age appropriate skill sheet. It is encouraged that the sheet be submitted with the exhibit, with the exception of the storyboard, portfolio and creative components. The intent is for the sheet to serve as a “personal reflection” that shows the judge how much you really learned. Why? Because in 4-H, reflection and application are just as important as the end product. Sheets will not be displayed, but will be returned. Not because the sheet is unimportant, but to simplify the display.
- Use the skill sheet as a planning tool. Ask yourself, “what skills are necessary to learn and appropriate to apply to my project’s design and construction?” It is important that each 4-H member take responsibility for the life skill of “learning to learn.” This may require members, leaders and educators to look up terms and learn techniques as part of the educational process.
- Projects being exhibited will be evaluated on the 4-H members “mastery” of the skill(s) and subject matter. The 4-H fashion and fabrics member & leader’s guides provide basic information that members need to learn (master) and demonstrate in their project. Members are encouraged to seek out other valid resources that teach proper technique and knowledge in the areas of design and construction.
- General Skills to be mastered in project/product in ADC, IDC and HTDC:
 - **Structural design:** construction technique, size, form, color and texture suited to the materials and product end use.
 - **Elements of design:** The finished product illustrates the member is learning or “mastering” the basic elements of design - line, shape or form, texture, color and space.
 - **Principles of design:** The finished product illustrates an awareness and application of the principles of harmony, proportion, balance, rhythm and emphasis adding dimension, interest and/or appeal to the finished product.
 - **Surface design:** Any lines, shapes, colors, textures or materials applied to the product or item design that creates an emotional or personal quality, individuality and creative expression without disturbing initial/end purpose. Design is something that makes the item unique to the individual designer.
- Project resources: go to <http://4h.okstate.edu/literature-links/lit-online/family-consumer-science/fabric> for guidance. These resources will better define multimedia, storyboard, portfolio, scientific and service learning models, leadership, historical/cultural significance, etc.
- If you have any questions, ask them on the OK 4-H Fabric and Fashions Q&A Facebook page, <https://www.facebook.com/pages/OK-4-H-Fabric-and-Fashions-QA/700780739954148>
- Descriptions: Any project requiring a description will include one or two pages, double-spaced, 12-point font. Neatly/legible, handwritten descriptions are acceptable.
- A county may enter one (1) exhibit in each class. A 4-H member may enter one (1) exhibit per class. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Hangers will not be returned.

- Awards for Competitive classes
 - Ribbons will be awarded to the top 10.
- Premium scale:
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - **APPAREL DESIGN & CONSTRUCTION (ADC)**
 - Level 1 (ages 8 to 10)
Project must have at least two (2) of the skills required for the ADC level 1 project work.
 01. **Simple Tops** – shirt, tank top, t-shirt, vest, poncho, or any other similar item not stated.
 02. **Simple Bottoms** – shorts, capris, pants, skirts, or any other similar item not stated.
 03. **Non-human Apparel** – doll clothes, pet or livestock garment, or any other similar item not stated.
 04. **Sewn Fashion Accessory** – sewn hats, scarves, bag, wallet, string-pack or textile based jewelry, or any other similar item not stated.
 05. **Knitted/Crocheted Yarn/Thread Fashion Accessory** – knitted/crocheted hats, scarves, bag, wallet, string-pack, textile based jewelry, or any other similar item not stated.
 - Level 2 (ages 11 to 12)
Project must have at least two (2) of the skills required for the ADC level 2 project work.
 06. **One piece garment with facing** – robe, jacket, dress, jumpsuit, shooting vest, or any other similar item not stated.
 07. **Simple Bottom with pocket and/or waistband or facing** – shorts, capris, pants, skirts, or any other similar item not stated.
 08. **Two piece garment** – top and bottom, jacket/vest with bottom/dress, PJ's, or any other similar set of items, not stated.
 09. **Non-human Apparel** – doll clothes, pet or livestock garment, or any other similar item not stated.
 10. **Sewn Fashion Accessory** – sewn hats, scarves, bag, wallet, string-pack, textile based jewelry, and any other similar item not stated.
 11. **Knitted/Crocheted Yarn/Thread Fashion Accessory** – knitted/crocheted hats, scarves, bag, wallet, string-pack, textile based jewelry, or any other similar item not stated.
 - Level 3 (ages 13-14)
Project must have at least two (2) of the skills required for the ADC level 3 project work.
 12. **Blouse/Shirt with sleeves and closure** – set-in, flat inset, cap, raglan, or kimono, or any other similar item not stated.
 13. **Bottom with zipper and/or pocket** – shorts, capris, pants, skirts, or any other similar item not stated.
 14. **Two piece garment** – coordinating top and bottom, jacket/vest with bottom/dress, PJ's, uniform, or any other similar set of items, not stated.
 15. **Sewn Fashion Accessory** – with closure/fastener and seams.
 16. **Knitted/Crocheted Yarn/Thread Fashion Garment or Accessory** – knitted, crocheted, tatted, or any other similar item not stated.
 17. **Redesigned Original Apparel** – with before and after pictures, a written description of the design and construction process the member chose and why. See instruction sheet for details.
 - Level 4 (ages 15 & up)
Project must have at least two (2) of the skills required for the ADC level 4 project work.
 18. **One piece lined or unlined, garment** – pants, skirt, coat, jacket dress, jumpsuit, uniform, formalwear, or any other similar item not stated.

19. **Unlined or lined two piece ensemble/coordinate**
20. **Fashion Accessory or Garment designed for Special Needs** – “Special Needs” being the individual requirements of a person with a mental, emotional, physical disability or disease. Include a description of whom it was made for, why the need, any special adaptations per the individuals request and any other pertinent information supporting the finished product.
- All Ages
21. **Costume human** – dance, pageant, holiday, theatrical, reenactment/period/living history garments or any other similar item not stated. Must be a complete costume or a total look which required hand and/or machine stitching. No costume accessories without the base garment(s). Shoes not required. State character and costume use on an attached 3x5 card.
22. **Costume non-human** – dance, pageant, holiday, theatrical, reenactment/period/living history garments or any other similar item not stated. Must be a complete costume or a total look which required hand and/or machine stitching.
- **INTERIOR DESIGN & CONSTRUCTION (IDC)**
IDC project must be made largely from a textile product unless otherwise stated. A textile is a flexible material made of fiber/thread/yarn. Textiles are formed with various methods including weaving, knitting, crocheting, knotting or felting. Other words for textiles are cloth and fabric.
- Level 1 (ages 8 to 10)
Project must have at least two (2) of the skills required for the IDC level 1 project work.
23. **Home Accent Bath, Bedroom, Kitchen, Storage, Living Room or Outdoors** – caddy, rug, or cover (i.e. “covers” tissue, toilet, TP), decorative towel, simple curtain, trash can, pillow, simple blanket/quilt, padded hanger, bulletin board, rug, bucket caddy, hanging storage unit, under-bed storage, basket liners, storage box, locker storage, scrapbook cover or any other similar item not stated.
24. **Bags** – laundry, jewelry, cosmetic, book/electronic cover, or any other similar item not stated.
25. **Seasonal décor from fabric** – table runner, placemat with napkin, wall hanging, centerpiece, decoration, or any other similar item not stated constructed by hand or machine stitching. **Do not include any item, which would fit under HTDC.**
26. **Seasonal décor non-fabric** – wall hanging, centerpiece, decoration, or any other similar item not stated.
- Level 2 (ages 11 to 12)
Project must have at least two (2) of the skills required for the IDC level 2 project work.
27. **Home Accent Bath, Bedroom, Kitchen, Storage, Living Room or Outdoors** – food caddy/warmer, appliance cover, message center/board, simple curtain, table cloth, simple table runner, hand/dish towel, potholders, not pad, apron, lunch bag, placemats and napkins, two (2) pillowcases, two (2) coordinating pillows, two (2) decorated towels or any combination of two (2) pieces, blanket/quilt with binding, lamp shade, lap desk, rug, painted floor cloth, bucket caddy, hanging storage unit, under bed storage, basket liners, storage box, scrapbook cover or any other similar item not stated.
28. **Bags** – laundry, jewelry, cosmetic, book/electronic/computer cover, garment bag or any other similar item not stated.
29. **Seasonal décor from fabric** – table runner, placemats with napkins, wall hanging, centerpiece, decoration, or any other similar item not stated constructed by hand or machine stitching. **Do not include any item which would fit under HTDC.**

30. **Seasonal décor non-fabric** – wall hanging, centerpiece, decoration, or any other similar item not stated.
- Level 3 (ages 13 to 14)
Project must have at least two (2) of the skills required for the IDC level 3 project work.
31. **Home Accent Bath, Bedroom, Kitchen, Storage, Living Room or Outdoors** – slipcovers, lined curtains/drapes/shades, pillows, lap throw, remote caddy, ottoman, lamp shade, fireplace mantel scarf, doily, any combination of two (2) coordinating items- bedspread, dust ruffle, pillow sham(s), lined curtains/shade/drapes, dresser scarf, garment bag, bucket caddy, hanging storage unit, under-bed storage, basket liners, storage box, locker storage, scrapbook cover, or any other similar item not stated.
32. **Recycled/Upcycled Furniture** – painted, stained, refinished, decoupage, tiled or upholstered furniture, or any other similar item not stated.
33. **Special “Needs” Accessory** - “Special Needs” being the individual requirements of a person with a mental, emotional, physical disability or disease. A functional item with a description of whom it was made for, why the need, any special adaptations per the individuals request and any other pertinent information supporting the finished product.
34. **Seasonal décor from fabric** – table runner, placemats with napkins, wall hanging, centerpiece, decoration, or any other similar item not stated constructed by hand or machine stitching. **Do not include any item which would fit under HTDC.**
35. **Seasonal décor non-fabric** – wall hanging, centerpiece, decoration, or any other similar item not stated.
- Level 4 (ages 15 & up)
Project must have at least two (2) of the skills required for the IDC level 4 project work.
36. **Home Accent Bath, Bedroom, Kitchen, Storage, Living Room or Outdoors** – slipcovers, lined curtains/drapes/shades, pillows, lap throw, remote caddy, ottoman, lamp shade, fireplace mantel scarf, doily, any combination of two (2) coordinating items- bedspread, dust ruffle, pillow sham(s), lined curtains/shade/drapes, dresser scarf, garment bag, picnic accessories, curtains for outdoors, cushions for outdoors, shades, placemats and napkins, utensil/condiments caddy, insulated carrier, bucket caddy, hanging storage unit, under-bed storage, basket liners, storage box, locker storage, scrapbook cover, or any other similar item not stated.
37. **Recycled/Upcycled Furniture** – painted, stained, refinished, decoupage, tiled and/or upholstered furniture.
38. **Special “Needs” Accessory** - “Special Needs” being the individual requirements of a person with a mental, emotional, physical disability or disease. A functional item with a description of whom it was made for, why the need, any special adaptations per the individuals request and any other pertinent information supporting the finished product.
39. **Seasonal décor from fabric** – table runner, placemats with napkins, wall hanging, centerpiece, decoration, or any other similar item not stated constructed by hand or machine stitching. **Do not include any time which would fit under HTDC.**
40. **Seasonal décor non-fabric** – wall hanging, centerpiece, decoration, or any other similar item not stated.
- **HOBBIES/TEXTILE DESIGN AND CONSTRUCTION (HTDC)**
HTDC projects are made from a textile product created by the exhibitor, unless otherwise stated. A textile is a flexible material made of fiber/thread/yarn. Textiles are formed with various methods including weaving, knitting, crocheting, knotting or felting. Other words for textiles are cloth and fabric.
- Level 1 (ages 8 to 10)
Project must have at least two (2) of the skills required for the HTDC level 1 project work.

41. **Simple Sewn Stuffed animal, doll or puppet**
42. **Decorative Textile Technique** – t-shirt, apron, accessory, wall hanging or pillow decorated with paint and/or dye. The foundation piece can be ready-made. Focus is on creativity and use/mastery of the decorative textile technique.
43. **Needle Art by Hand or Machine** – Simple stamped cross-stitch or embroidery, counted cross-stitch, needlepoint or crewel embroidery applied to towel, pillowcase or small decorative item.
44. **Hand or Machine Pieced or Appliquéd Block** – no larger than 16”x16”. Edges should be finished or the piece can be framed. No quilting on the finished piece.
45. **Repurposed Textile Creation** - Item made from **repurposed or non-traditional textile** material which can be worn/carried or used in the home.
- Level 2 (ages 11 to 12)
Project must have at least two (2) of the skills required for the HTDC level 2 project work.
46. **Stuffed animal, doll or puppet** – with hand and machine stitching
47. **Decorative Textile Technique** – Clothing, accessory, wall-hanging, or pillow decorated with paint, dye and/or printing. The foundation piece can be ready-made. Focus is on the mastery of a decorative textile technique. Judged on the creativity and use of the decorative textile technique.
48. **Needle Art by Hand or Machine** – Hand embroidery, cross-stitch, counted cross-stitch, needlepoint or crewel embroidery, needle punch or smocking applied to garment, home accessory or as a finished picture.
49. **Hand or Machine Pieced or Appliquéd Item** – no larger than 16”x16”. Focus on the creation of fabric/textile. No quilting on the finished piece. Examples might include picture or wall art, pillow, bag, doll quilt, table runner, etc.
50. **Repurposed Textile Creation** - Item made from **repurposed or non-traditional textile** material which can be worn/carried or used in the home.
- Level 3 (ages 13 to 14)
Project must have at least two (2) of the skills required for the HTDC level 3 project work.
51. **Stuffed animal, doll or puppet** – with a minimum of two (2) hand and/or machine sewing techniques (i.e. facial features, hair, movable parts, fake fur, clothing, or any other similar item not stated.)
52. **Decorative Textile Technique** – Fashion or home accessory, clothing or wall décor using two (2) or more decorative textile techniques such as weaving, Trapunto, surface textiles, quilting, applique, beading, lacing, dyeing, printing, thread painting, etc. Judged on the creativity and mastery of the decorative textile technique.
53. **Needle Art by Hand or Machine** – floss, yarn (crewel) or ribbon, counted cross-stitch, needlepoint, needle punch, smocking, Trapunto, quilting applied to garment/accessory, home accessory, picture, wall hanging or blanket/quilt.
54. **Hand or Machine Pieced and/or Appliquéd Item finished with Hand or Machine quilting** –Examples might include picture or wall art, pillow, bag, doll quilt, table runner, etc.
55. **Repurposed Textile Creation** - Item made from **repurposed or non-traditional textile** product which can be worn, used in the home, school, office or any similar item not stated.
- Level 4 (ages 15 & up)
Project must have at least two (2) of the skills required for the HTDC level 4 project work.
56. **Stuffed animal, doll or puppet** – with multiple (more than two) hand and machine sewing techniques (i.e. facial features, hair, movable part, fake fur, clothing or any other similar item not stated).

57. **Decorative Textile Technique** – Fashion or home accessory, clothing or wall décor using two (2) or more decorative textile techniques such as weaving, Trapunto, surface textiles, quilting, applique, beading, lacing, dyeing, printing, thread painting, etc. Judged on the creativity and mastery of the decorative textile technique.
58. **Needle Art by Hand or Machine** – Hand embroidery: floss, yarn (crewel) or ribbon, counted cross-stitch, needlepoint needle punch or unspecified hand technique applied to garment/accessory, home accessory, picture, wall hanging or blanket/quilt.
59. **Hand or Machine Pieced and/or Appliquéd Item finished with Hand or Machine quilting** –Examples might include picture or wall art, pillow, bag, doll quilt, table runner, etc.
60. **Repurposed Textile Creation** - Item made from **repurposed or non-traditional textile** which can be worn, used in the home, school, office, car or any similar item not stated.

Babysitting/Childcare (Division 4307)

- Refer to member and leader guides for ideas. A county may enter one (1) exhibit in each class.
 - **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1st 2018.
 - Please reference the Oklahoma 4-H website, <http://4h.okstate.edu/literature-links/lit-online/family-consumer-science/4HBabysittingChildCareProjectUnitOne.pdf> for literature listed below.
 - Awards
 - Only first thru fifth place will be displayed, or as space allows.
 - Ribbons will be awarded to the top 10.
 - Premium scale:

○ First place: \$7	○ Second place: \$5	○ Third place: \$3
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 - Classes:
 - Unit 1 (ages 8 to 13)
01. **Baby book:** Any practical size, minimum of five (5) pages covering at least 9 to 10 months of development. Includes photographs, drawings mementos and comments on developmental milestones. Must be clear the 4-H'er has contributed child development information to book. Baby books prepared earlier by parents may not be entered unless the 4-H'er reworks the information. Handwriting should be the youth preparing the exhibit not an adult (see unit 1, page 13). Do not confuse with class 05 children's book.
 02. **Puzzles help children learn:** any size. Two (2) puzzles developmentally appropriate for children at two (2) distinct age and ability levels. Each puzzle must have its own storage container. Puzzles must be sturdy and covered so they can be cleaned with damp cloth. Describe the child each puzzle would be appropriate for by giving the child's age, interest and ability. Puzzles should be suitable for either boys or girls. Do not indicate that a puzzle is for boys or girls only. (See unit 1, page 13). Commercially made puzzles are not eligible.
 03. **Childcare poster:** must be 14"x22", and permanently signed and dated on the back prior to lamination. Judging committee may mark or punch if not marked. Text of poster should be visible for at least 10 feet away. Choose one (1) of these topics to develop poster: behavior and guidance, include pictures and fact about child development (see unit one, pages 14-15, no. 706); safety risks and procedures, include common safety risks that a babysitter needs to be aware of and procedures to address the safety issue (see unit 1, pages 4-7, no. 575; unit 2, pages 16-17, 28-29; and 4-H army child & youth services babysitting student guide pages 25-44; ages and stages of development (page 10, no. 575; and 4-H army child & youth services babysitting student guide, pages 49-50).
 04. **Basic first aid kit:** create a basic first aid kit from scratch that includes the basic supplies to take care of small accidents such as: bumps, scrapes, stings and sprains. Include an

emergency contact list that includes but is not limited to: emergency numbers for police, fire department, poison control, veterinarian, etc. Include a supply list and the cost to put the kit together. The kit should be in a container with a lid or zipper closure. Make sure there is a label on the kit that identifies it as a first aid kit. See 4-H army child & youth services babysitting student guide, pages 37-41.

- Unit 2 (ages 14 to 19)
- 05. **Children's book:** written, illustrated and constructed by the 4-H'er. May be written for a specific with text relating to that child or for children of a certain age range. Indicate appropriate age range. Construction paper, computer printout, cloth or poster board may be used. Illustrations may be drawn, photographs, appliqués, magazine pictures or reassembled from other books. See books for children, no. 707. Do not confuse with class 01 baby book.
- 06. **Surprise suitcase:** fill suitcase with homemade or store bought items for children you babysit. Could include: books, puzzles, games, play dough, balls and costumes. Indicate the appropriate age of the child to use each item. Include records of how children have responded to the materials. Package in suitcase that can be taken to the home. See child care kit, no. 722. May include commercial puzzles. Contents need to be in a suitcase or a container with a lid.
- 07. **Create a game:** create a board game or card game to teach a specific topic to a child. Examples might include, but are not limited to: hygiene practices, exercise and fitness, and safety etc. Game boards must be 14"x22", and must be permanently signed and dated on the back prior to lamination. Judging committee may mark or punch if not marked. Make sure to laminate game boards, cards or any pieces made of paper so that they are durable. Include written instructions of the rules of the game. Note in the instructions the age appropriateness of the game.

HEALTH/LIFESTYLE EDUCATION

Food Science & Nutrition (Division 4308)

- Counties may enter one (1) food preparation and preservation exhibit per class.
- Individual 4-H members can enter one (1) exhibit per class, but are restricted to those exhibits designed for his/her age group.
- Educational exhibits must fit 3'x3' (width x depth) space, with sides extended. Exhibits must be free standing with sides attached. Poster must be constructed on poster board 14"x22". Posters and displays must be permanently signed and dated on the back prior to lamination. Judging committee may mark or punch if not marked. Text of posters and displays should be readable from at least 10 feet away.
- Criteria for evaluating educational displays and posters include:
 - Originality of idea: 20 points
 - Educational value: 50 points
 - Display value: 30 points
- All food products must be on a paper plate and in a sealed plastic bag. The superintendent will only exhibit a slice of cake or bread, and one (1) cookie, muffin or roll of all exhibits, and will dispose of all excess food.
- 4-H'ers may use recipes indicated in the food science manuals or any other recipe that fits the exhibit requirements. Cakes must be made from scratch, using shortening mixing method - no angel food or chiffon-type. Bread machines may be used for the bread exhibits, but bread must be made from scratch - no mixes.
- Dried foods should be exhibited in a sealed, plastic sandwich bag.

- Canned foods should be placed in colorless, standard-canning jars such as those made by Kerr, Ball, etc., and properly sealed with two (2) piece lids - no paraffin on jams and jellies. Other types of jars will be rejected. Judges will remove the screw-bands at time of judging. Labels should be neat and plainly written. Jars of jams and jellies being considered for ribbons may be evaluated for taste in addition to traditional attributes.
- **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Awards:
 - Only the top 5 exhibits in each food preparation class will be displayed. All other exhibits may be picked up after judging is complete. Any exhibit not picked up the day of judging will be disposed of by fair officials.
 - Ribbons will be awarded to the top 10.
- Premium scale:
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - **Food Preparation Exhibits**
Only one piece of 1st thru 5th place food preparation exhibits will be displayed. Non-placing exhibits will be discarded if not picked up.
 - Level 2 (ages 8 to 11)
 - 01. Three (3) muffins
 - 02. Three (3) rolled biscuits
 - 03. Three (3) baked drop cookies - no shaped cookies, such as: snickerdoodle or peanut butter
 - Level 3 (ages 12 to 14)
 - 04. One (1) half loaf of any yeast bread, not a sweet dough, made by hand or in a bread machine
 - 05. Three (3) yeast cinnamon rolls without icing
 - 06. Three (3) rolled sugar-type cookies - no gingerbread recipes
 - Level 4 (ages 15 & over)
 - 07. One (1) half loaf or portion of breads from another culture. Include a one (1)-page story on how this bread fits into that culture and its nutritional contribution
 - 08. One (1) half of one 8" layer un-iced shorten type cake - no angel food or chiffon
 - **Food Preservation Exhibits**
Jar rings should be left on for display. Home-canned food entries should be presented in standard jars made for home canning, with a raised pattern or lettering, clear, uncolored glass and two-piece lids.
 - Level 2 (ages 8 to 11)
 - 09. One (1) pint or half (½) pint jar of jam or jelly processed in boiling water canner
 - 10. Two (2) pieces of fruit leather
 - 11. One (1) pint or half (½) pint of salsa/picante sauce
 - Level 3 (ages 12 to 14)
 - 12. One (1) pint jar cucumber pickles or vegetable relish
 - 13. One (1) pint or quart of any single canned fruit - not pickled
 - 14. Half (1/2) cup of a single dried fruit sealed in a plastic sandwich/freezer bag
 - Level 4 (ages 15 & over)
 - 15. One (1) pint or quart jar pressure canned vegetables - no tomatoes or pickles
 - 16. One (1) pint or quart jar of plain canned tomatoes

FOOD SCIENCE & NUTRITION POSTER & EDUCATIONAL DISPLAYS

- Posters and educational displays must be permanently signed and dated on the back prior to lamination. Judging committee may mark or punch if not marked.
- Posters size is 14"x22" and educational displays should be no larger than 3'x3' (depth x width) and self-standing.
- Text of posters and displays should be readable from at least 10 feet away.
 - **Diversity Exhibits**
 - Level 2 (ages 8 to 11)
 - 17. Educational poster based on breads or cheeses of another country or countries.
 - Levels 3 & 4 (ages 12 & over)
 - 18. Educational poster based on the foods from another culture - can be based on a cultural celebration
 - **Nutrition Exhibits**
 - Level 2 (ages 8 to 11)
 - 19. Educational poster based on recipe modification for healthful eating
 - Level 3 (ages 12 to 14)
 - 20. Educational poster based on the nutritional contributions of fruits and vegetables
 - Level 4 (ages 15 & over)
 - 21. Educational display based on a recipe modification to include:
 - Original recipe and what modifications were made
 - Benefits of the modifications
 - How the modifications impacted the above factors?
 - Others responses to the modifications?
 - **Food or Kitchen Safety Exhibits**
 - Level 2 (ages 8 to 11)
 - 22. Educational poster based on food or kitchen safety
 - Level 3 (ages 12 to 14)
 - 23. Educational poster based on protein food safety
 - Level 4 (ages 15 & over)
 - 24. Educational poster based on outdoor cookery or grilling
 - **Other Exhibits**
 - Level 2 (ages 8 to 11)
 - 25. Educational poster illustrating a place setting for a specific occasion or menu
 - Level 3 (ages 12 to 14)
 - 26. Educational display based on a breakfast buffet theme. Should include: menu, buffet layout, decorations, invitations and any additional information
 - Level 4 (ages 15 & over)
 - 27. Educational poster based on careers in the food industry

PERSONAL DEVELOPMENT AND LEADERSHIP

Personal Development (Division 4309)

- All new categories for Personal Development and Leadership were implemented in 2017. All curriculum for personal development is posted on the Oklahoma 4-H website, http://4h.okstate.edu/literature-links/lit-online/leadership-personal_development/personal-development/personal-development-resources.
- **Picture Perfect YOUth Curriculum and Leader Guide:** this new curriculum provides specific lessons in each level of the curriculum (beginner, intermediate and advanced) with fair project instructions. On the table of contents of each project manual, lessons with fair projects are noted with a blue ribbon icon. The score sheet for evaluating fair projects is included in all manuals and the leader guide.
- **Heritage scrapbook classes:** the heritage scrapbook project also has a new curriculum. It is available at the link above. This manual provides specific activities for each age division (beginner, intermediate, advanced). Specific activities are required for each age division and other activities are optional. The heritage scrapbook should grow each year. All instructions for completing the heritage scrapbook are provided in each activity in the manual. The heritage scrapbook score sheet is included in the manual and Picture Perfect YOUth Leader Guide. Please note that instructions for activities in the Heritage Scrapbook are in **BOLD** in each lesson. Make sure you refer to the score sheets to double check that all required information is included in the scrapbook for each activity.
- **Scrapbook classes:** the 4-H scrapbook project has a specific curriculum that teaches youth the basics of scrapbooking. The manual is available on the website link above. Youth are encouraged to go through these six (6) lessons before beginning a scrapbook project. The score sheet for evaluating the scrapbooking classes is provided in the 4-H scrapbooking manual.
- Posters and educational displays should follow the guidelines found on page 2, unless different instructions are provided in the project manual.
- A county may enter one (1) exhibit in each class. Individual 4-H members can enter one (1) exhibit in each class. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Awards:
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - Beginner level (ages 8 to 11)
 01. **My Short Term Goals poster** - Picture Perfect YOUth beginner manual: Let's Take A Goal Setting Ride, page 7
 02. **Hello to the House poster** - Picture Perfect YOUth beginner manual: Who am I? Who are YOU?, page 32
 03. **That's Write! Poster** - Picture Perfect YOUth beginner manual: Manners Matter: That's Write!, page 41.
The 2018 thank you note subject: Your grandmother, who lives out of state, sent you a \$100 gift card to your favorite store. Include how you plan to spend the money.
 04. **My Hands of Service display** - Picture Perfect YOUth beginner manual: Helping Hands in Action, page 62
 05. **Emergency Preparedness kit** - Picture Perfect YOUth beginner manual: Safe in My World, page 87
 06. **Heritage Scrapbook** - required activities: My Family Tree, Picture This, My Heredity Profile, This is Me; optional activities - Preserving my Family Traditions and Customs, Digital Scavenger Hunt, Can I Interview You?
 07. **Scrapbook:** four (4) to six (6) pages - pages are counted just like pages of a book, not plastic sleeves. Scrapbooks should center on a specific theme such as 4-H projects, family vacations, birthday celebrations, a specific family holiday, etc.

- Intermediate level (ages 12 to 14)
 08. **Problem Solving poster** - Picture Perfect YOUth intermediate manual: Solutions for Problem-Solving, page 16
 09. **Media messages, Myth or Fact? Display** - Picture Perfect YOUth intermediate manual: The People in our Lives, page 46
 10. **Leadership Banner poster** - Picture Perfect YOUth intermediate manual: Modeling Leadership, page 58
 11. **My Thumbprint of Character poster** - Picture Perfect YOUth intermediate manual: I.D. Good Character, page 79
 12. **Cyber Space Safety board game** - Picture Perfect YOUth intermediate manual: Cyber Space: Keep It Safe, page 89
 13. **Heritage Scrapbook**: Required activities: My Family Tree, Picture This, My Heredity Profile, This is Me, My Day in History, Letter Writing: A Lost Art, Favorite Family Recipe, Hello, My Name is.. Optional activities: Cultural Museums of Oklahoma, Digital Scavenger Hunt, Can I Interview You?
 14. **Scrapbook**: Eight (8) to 10 pages - pages counted just like pages of a book, not plastic sleeves. Scrapbooks should center on a specific theme such as 4-H projects, family vacations, birthday celebrations, a specific family holiday, etc.

- Advanced level (ages 15 to 19)
 15. **Goal Setting Collage poster** - Picture Perfect YOUth advanced manual: Be SMART About Goals, page 15
 16. **The Who, What, Why and How of an Interview creative writing poster** - Picture Perfect YOUth advanced manual: Communicating Well with Others, page 34
 17. **Teambuilding Game display** - Picture Perfect YOUth advanced manual: Teamwork: Towering to Success, page 53
 18. **My BEST Marketable Skills display** - Picture Perfect YOUth advanced manual: Making Your Mark!, page 73
 19. **Vehicle Emergency Kit** - Picture Perfect YOUth advanced manual: Destination: Safe, page 81
 20. **Heritage Scrapbook** - required activities: My Family Tree, Picture This, My Heredity Profile, This is Me, My Day in History, Letter Writing: A Lost Art, Favorite Family Recipe, Hello. My Name is..., My Family Genogram, My Life Timeline, Cultural History Exploration, Family Holidays. optional activities: My Family Poem, Digital Scavenger Hunt, Can I Interview You?
 21. **Scrapbook** - 12 to 16 pages - pages counted just like pages of a book, not plastic sleeves. Scrapbooks should center on a specific theme such as 4-H projects, family vacations, birthday celebrations, a specific family holiday, etc.

Postmark (Division 4310)

- This exhibit consists of postmarks, not stamps. Exhibits may be illustrated. All postmarks must be mounted on either 8½"x11" note paper or photo album page of any color in a binder. All entries are limited to 30 pages for the collection, plus an additional page for the collection objective. Plastic cover pages are acceptable to protect the mounts. Any class may be illustrated.
- Judging criteria: appearance and neatness, readability, material relates to chosen topic, and a brief written description telling purpose or objective of your collection.
- **NOTE:** Metered postage marks must not be used in non-metered class exhibits and non-metered postmarks in metered classes.

- Collections from a commercial source are not eligible for exhibit (i.e.: through a postal society membership). At least one-third of the postmarks in any collection must have been added during the current project year.
- All entries must be clearly marked on the front cover or inside the front cover with the member's name and county.
- 4-H'ers may enter one exhibit per class in their age group. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Awards:
 - Only first thru fifth place will be displayed.
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:

○ First place: \$7	Second place: \$5	Third place: \$3
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- Classes:
 - Beginning level (ages 8 to 11)
 01. Postmark for 10 post offices in home county or surrounding area
 02. 30 Oklahoma postmarks
 03. 20 topical, any category
 04. 25 metered postage marks
 - Intermediate level (ages 12 to 14)
 05. 30 hand cancelled
 06. 10 to 30 postmarks that tell a story
 07. 30 or more different slogans
 08. 30 topical, any category
 09. 30 metered postage marks
 - Advanced level (ages 15 & over)
 10. 100 or more hand cancelled postmarks
 11. 30 to 75 postmarks that tell a story
 12. 50 or more different slogans
 13. 50 or more topical, any category
 14. 50 metered postage marks

SCIENCE AND TECHNOLOGY DIVISION

Electric Exhibit (Division 4311)

- All exhibits must illustrate applications and utilize electrical energy. The exhibit must have been constructed by the exhibitor during the year exhibited and must meet electrical safety standards. All exhibits, except lamps will be judged on electrical wiring and connections, electrical components, usefulness of exhibit, working condition, complexity and design, appearance, originality, workmanship, and safety. Lamps will be judged as described for each class.
- A 4-H member can have only one (1) exhibit in each class.
- **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Exhibits should be permanently signed and dated on the bottom or in an inconspicuous location. If not marked judges may mark or punch.
- Awards:
 - Only first thru fifth place will be displayed.
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:

○ First place: \$7	Second place: \$5	Third place: \$3
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- Classes:

01. **Electric Projects** (ages 8 to 11): Entries include - electromagnets, motors, buzzers and direct current circuit boards.
02. **Kit Lamps/Kit Construction** (all ages): Electrical wiring and connections, light source and suitability, as a reading lamp will be judged. Lamps can be floor, desk or wall models.
03. **Original Lamps** (all ages): Originality, workmanship, electrical wiring and connections, light source, and suitability, as a reading lamp will be judged. Lamps can be floor, desk or wall models (no kits).
04. **Rewired Lamps** (all ages): Workmanship, craftsmanship and electrical wiring and connections will be judged. The lamp will not be judged as a reading lamp.
05. **Electric and Electronic Circuits** (ages 8 to 11): The exhibit should be mounted on a board and clearly show all circuits. The exhibit should be operational and demonstrate a useful principle or be functional. The exhibit should include an explanation of the principal being demonstrated.
06. **Electric and Electronic Circuits** (ages 12 & over): The exhibit should be mounted on a board and clearly show all circuits. The exhibit should be operational and demonstrate a useful principle or be functional. The exhibit should include an explanation of the principal being demonstrated.
07. **Exhibit** (ages 12 & over): Exhibit demonstrating skill or knowledge such as, wire sizing, proper wiring of an electrical cord plug, wall outlet, wall switch, 3-way switch, etc. The exhibit should include an explanation of the principal being demonstrated.
08. **Exhibit** (ages 12 & over): Exhibit of a wiring diagram for a home, other building or electric supply system for a community.
09. **Electric Concept Poster** (ages 8 to 11): Exhibit showing a basic electric concept or explaining the proper use of electricity in modern life. The poster should be 14"x22".
10. **Electronics/Lighting Selection Poster** (ages 12 & over): Exhibit is on information that consumers might use in making a selection of any electronic devices such as computers, games, telephones, lighting fixtures, bulbs or other electronic device. The poster should be 14"x22".

Model Rocketry (Division 4312)

- Posters must be 14"x22". Exhibitors are encouraged to laminate all posters or cover them with clear plastic film. Display boards should be limited to a maximum of 2'x3' and must have a single ¼" hole drilled at the top center of board to allow for display. Text of posters or displays should be readable from at least 10 feet away. Model rockets, posters and displays should be permanently signed and dated in an inconspicuous location. If not marked the judging committee may mark or punch exhibits.
- NO LIVE ROCKET ENGINES WILL BE ALLOWED IN ANY EXHIBIT. Homemade rockets could be dangerous to fly.
- A county can enter only one (1) exhibit in each class. 4-H members can enter only one (1) exhibit in each class. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Attach a 3"x 5" index card to each rocket, explaining:
 - Construction material, how constructed and goal of project
 - Year in project
 - Age of member
 - Whether or not made from kit
 - Other pertinent information
- Awards:
 - Only first thru fifth place will be displayed.
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:

○ First place: \$7	○ Second place: \$5	○ Third place: \$3
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- Classes:
 - Juniors (ages 8 to 13)
 01. Poster showing the parts of a model rocket, with an explanation of the purpose of each part
 02. Poster explaining the function of the model rocket engine
 03. Poster showing one (1) or more points from model rocketry safety code
 04. Model rocket made from a kit that is safe and functional for flight
 05. Model rocket designed and built by exhibitor that is safe and functional for flight
 06. Poster on any other topic pertaining to model rocketry project
 - Seniors (ages 14 & over)
 07. Poster or display showing the parts of a model rocket, with an explanation of the purpose of each part
 08. Poster or display explaining the function of the model rocket engine
 09. Poster or display showing one or more points from model rocketry safety code
 10. Model rocket made from a kit that is safe and functional for flight
 11. Model rocket designed and built by exhibitor that is safe and functional for flight

Wood Science and Industrial Arts (Division 4313)

- The wood science exhibits should demonstrate a project experience that emphasizes the development of woodworking skills, such as: sawing, sanding, planning, alignment of joints, neat use of fasteners (nails, screws, etc.), and careful application of finishes. Judging will focus on the evidence of these skills.
- These exhibits will consist of 4-H members articles from the past year. The project is not limited to current project idea sheets. It must be proportional, functional and include the same techniques as the listed classes. Miscellaneous and refinished class items should be similar in size to the exhibits in the classes listed for the age division.
- 4-H members can enter one (1) exhibit per class and are restricted to exhibits designed for his or her age group. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- They will be judged separately in two (2) age groups: junior – ages 8 to 13, and seniors – ages 14 & over.
- Wood science exhibits should be permanently signed and dated in an inconspicuous location. If not marked judge may mark.
- Awards:
 - Only first thru fifth place will be displayed.
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:

○ First place: \$7	○ Second place: \$5	○ Third place: \$3
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- Classes:
 - **Wood Science** (all ages)
 01. Jr. Woodcarving Article
 02. Sr. Woodcarving Article
 03. Jr. Woodcraft: Original Design
 04. Sr. Woodcraft: Original Design
 - **Beginning level** (ages 8 to 11)
 05. Wall mounted rack for hot pads, ties, paper towels or other wall mounted item
 06. Puzzle or game
 07. Spice, what-not or other small shelves
 08. Bookends
 09. Miscellaneous

- **Intermediate level** (ages 12 to 14)
 10. Bookcase or entertainment center, without doors
 11. Gun, baseball bat, fishing rod or similar rack
 12. Refinished item: attach a before picture & story with history of time, cost sheet and description of process used
 13. Miscellaneous
- **Advanced level** (ages 15 & older)
 14. Gun, curio or display cabinet, with doors
 15. Table
 16. Chest
 17. Miscellaneous
 18. Refinished item: attach a before picture & story with history of item, cost sheet and description of process used
- **Metalwork** (Juniors ages 8 to 13 and Seniors ages 14 & over)
 19. Jr. Metalwork: Embossed, tooled, etched
 20. Sr. Metalwork: Embossed, tooled, etched
 21. Jr. Metalwork: Soldered
 22. Sr. Metalwork: Soldered
 23. Jr. Metalwork: Arc Welding
 24. Sr. Metalwork: Arc Welding
 25. Jr. Metalwork: Gas Shielded Arc Welding
 26. Sr. Metalwork: Gas Shielded Arc Welding
 27. Jr. Metalwork: Free Hand Plasma Cutting
 28. Sr. Metalwork: Free Hand Plasma Cutting
 29. Jr. Metalwork: Computer Aided Plasma Cutting
 30. Sr. Metalwork: Computer Aided Plasma Cutting

ENVIRONMENTAL EDUCATION AND EARTH SCIENCES

Shooting Sports (Division 4314)

- **DO NOT** include any live ammunition, actual firearms or parts of firearm that could be reassembled. Any manufactured part of a sporting arm may not be displayed. **NO** knives, axes, etc., may be entered.
- For exhibits other than posters, attach a 3"x5" inch notecard to the back of the exhibit describing the exhibit, what was done to create or prepare this exhibit, and how the exhibit relates to the shooting sports project.
- The 4-H member's name, age, and county must be included with the exhibit. Exhibits deemed to be inappropriate will not be displayed.
- The 4-H shooting sports are open to all ages. They will be judged separately in two (2) age groups: junior – ages 8 to 13, and seniors – ages 14 & over. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Exhibits suggested but not limited to: posters, educational displays, journals, slings, quivers, gunstocks, decoys and equipment.
- All exhibits will be judged on the basis of instructions and standards explained in the Oklahoma "501: 4-H Shooting Sports Exhibit Preparation Guidelines Leaders/Members Guide" no. 690(1/2007), which is available through the County Extension Office and on the Oklahoma State 4-H website in "Literature on-line" at <http://4h.okstate.edu/literature-links/lit-online/others/shooting>.
- Posters must be 14"x22". For display purposes, exhibitors are encouraged to laminate all posters or cover them with clear plastic film. Posters must be permanently signed and dated on the back. If not

marked the judging committee may mark or punch. Posters may be horizontal or vertical. Text of poster should be readable from at least 10 feet away.

- Educational display must be 3-dimensional and mounted on a freestanding display board not to exceed 3'x3' (width x depth) when the sides are extended for display. Commercially available "science fair" presentation boards are recommended.
- If you use text, pictures, drawings, artwork or other information not created by you in your exhibit you must cite the source.
- Awards:
 - Only first thru fifth place will be displayed.
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:

○ First place: \$7	○ Second place: \$5	○ Third place: \$3
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- Classes:
 - **Junior**
 - An explanation on a 3"x5" card must be attached describing the exhibit, what was done to create or prepare this exhibit, and how the exhibit relates to the shooting sports project.
 - 01. Shooting Sporting Safety: any related item made
 - 02. Archery: any related item made
 - 03. Air Pistol: any related item made
 - 04. Air Rifle: any related item made
 - 05. .22 Rifle: any related item made
 - 06. Shotgun: any related item made
 - 07. Hunting & Wildlife: any related item made, including: tanned hides, dried and mounted wings, cleaned skulls or other wildlife parts preserved by the 4-H member. Full taxidermy-style mounts will not be accepted, due to limited space.
 - 08. Living History: any related item made
 - **Senior**
 - An explanation on a 3"x5" card must be attached describing the exhibit, what was done to create or prepare this exhibit, and how the exhibit relates to the shooting sports project.
 - 09. Shooting Sporting Safety: any related item made
 - 10. Archery: any related item made
 - 11. Air Pistol: any related item made
 - 12. Air Rifle: any related item made
 - 13. .22 Pistol: any related item made
 - 14. .22 Rifle: any related item made
 - 15. Shotgun: any related item made
 - 16. Muzzleloading: any related item
 - 17. Hunting and Wildlife: any related item made, including: tanned hides, dried and mounted wings, cleaned skulls or other wildlife parts preserved by the 4-H member. Full taxidermy-style mounts will not be accepted due to limited space.
 - 18. Living History: any related item made

Entomology Insect Exhibit (Division 4315)

- The exhibits in entomology are planned to be progressively more difficult. The specific age of exhibitors does not appear in the entomology section for this reason. Refer to 4-H entomology member guides 1-6 for more detail regarding Fair exhibits. **Note:** the Fair book exhibit list overrides the member guides.
- A 4-H member may enter only one insect exhibit in Entomology (first year through fifth year). Exhibits in the first through fifth year are allowed a maximum of five (5) foreign and/or out-of-state collected insects, no restrictions on self-determined exhibit.

- All insects must be mounted on standard insect pins that can be purchased from the State 4-H Office. Each insect should be identified by its common name, using the correct spelling. A typed master list indicating the scientific order and common name of each specimen should accompany the display. The master list document is located at <http://4h.okstate.edu/events-and-activities/oklahoma-state-fairs>. In addition, a pinned mothball should be included to preserve the specimens.
- Exhibit collections for classes 01 thru 05 are allowed a maximum of five (5) foreign and/or out-of-state collected insects.
- Exhibits in classes 02 thru 05 must be in insect display boxes measuring 19"x16.5"x3". This is the size of a Cornell University drawer. Boxes can be purchased at, <http://www.bioquip.com/search/DispProduct.asp?pid=1012AM> or made using the pattern available at <http://4h.okstate.edu/events-and-activities/oklahoma-state-fairs>. Boxes that are not this size will be DISQUALIFIED. At least one-third of the specimens in any collection must have been collected during the current project year.
- Information regarding insect collection can be found at, <http://entoweb.okstate.edu/4H-FFA/>.
- **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Awards:
 - Only first thru fifth place will be displayed.
 - Ribbons will be placed on the top 10 in each class.
- Class 01 – 05 premium scale:
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 01. **First year:** The exhibit shall consist of 25 adult insects, representing at least five (5) orders, that are displayed in folding insect storage box 9"x13"x2.5". This box can be purchased in bulk at, <http://www.bioquip.com/search/DispProduct.asp?pid=1002F> or individually from the State 4-H Office. Cover with plastic wrap or rigid plastic. Exhibitors, age 9 – 10, entering class 01 may be allowed to enter class 01 a second year, if the exhibit did not place in the top 5 at OSF the previous year, as long as modifications are made to the exhibit.
 02. **Second year:** The exhibit shall consist of 40 adult insects, representing eight (8) to 10 orders that are displayed in the insect display box as indicated above.
 03. **Third year:** The exhibit shall consist of 50 adult insects, representing 10 to 12 orders that are displayed in the insect display box as indicated above.
 04. **Fourth year** - The exhibit shall consist of 75 adult insects, representing 12 to 14 orders, that are displayed in the insect display box as indicated above.
 05. **Fifth year & beyond:** The exhibit shall consist of 100 adult insects, representing 14 to 18 orders that are displayed in the insect display box as indicated above. There is no limit on the number of years this class may be entered, as long as major modifications or additions are made to the exhibit.
 06. **Self-Determined Entomology Exhibit/Collections:** Designed to allow exhibitors to prepare displays indicating expanded interest beyond the requirements of collections exhibited in previous years. Exhibits should be of an educational nature, attractive in design and easy to understand. A written report explaining the nature or purpose of the project must accompany the exhibit. Participants in this class are also allowed to have one (1) entry in classes 01 to 05. There is no limit on the number of years that one can enter the advanced class. Exhibitors can continue to exhibit in the self-determined class as long as new exhibits are entered or if major revisions are made on a previous exhibit.

4-H HONEY EXHIBIT

- Only one (1) exhibit allowed in each class per individual.

- Honey should be placed in colorless, one-pint honey jars or standard, colorless one-pint fruit jars, such as: Kerr, Ball, Mason, etc. Other types of jars will be rejected. Jar covers should be new, if possible, and be screwed on tightly to prevent leakage. There should be ¼” - ½” air space below the lid.
- Honey should be clear and free from foreign particles.
- Chunk honey should be perfectly capped, free from stains, bee-bread and fingerprints. Edges should be clean-cut, not ragged. One (1) piece only in each jar, as wide as the jar mouth will permit and long enough to extend from the bottom to the top without jamming.
- Labels should be neat and plainly written or printed.
- **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- **Awards:**
 - Ribbons will be placed on top 10 in each class.
- Premium scale:

○ First place: \$7	○ Second place: \$5	○ Third place: \$3
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- **Classes:**
 - 07. Comb Honey, one pint jar
 - 08. Extracted Honey, one pint jar

Forestry (Division 4316)

- A member may enter one (1) exhibit per class but is restricted to only those exhibits designed for his or her age group. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Forestry boards and exhibits **MUST** be signed and dated on the back by the exhibitor.
- Two (2) holes, 1/2” diameter and 1” from the top should be drilled in wood boards to facilitate displaying the exhibit.
- **Awards:**
 - Only first thru fifth place will be displayed.
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:

○ First place: \$7	○ Second place: \$5	○ Third place: \$3
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- **Classes:**
 - **Tree Leaf Exhibit**
Exhibit must conform to all requirements, including labeling & display requirements, outlined in 4-H fact sheet no. 236, Collecting and Exhibiting Tree Leaves, <http://4h.okstate.edu/literature-links/lit-online/environmental-science/forestry>.
 01. Ages 8 to 11: Collection of 10 leaves from trees native to Oklahoma - no introduced species. One (1) specimen must be from a native evergreen - pine or juniper. Include a twig & buds with each broadleaf specimen. Exhibit must be properly labeled and displayed on a 22"x28" board.
 02. Ages 12 to 15: Collection of 15 leaf specimens, representing at least three (3) of the five (5) basic leaf types, from trees native to Oklahoma - no introduced species. Two (2) specimens must be from native awl or scale-leaf evergreen - pine or juniper. Non-native species are acceptable only if they have been introduced for planting windbreaks and shelterbelts. Include a twig with buds with each broadleaf specimen. Exhibit must be properly labeled and displayed on 28"x44" board. Two (2) 28"x22" boards hinged in the middle are more portable.
 03. Ages 16 & over: Collection of 20 leaf specimens, representing four (4) of the five (5) basic leaf types, from trees native to Oklahoma. Three (3) specimens must be from needle, scale or awl-leaf evergreens. Species of pine not native to Oklahoma are acceptable if they have been introduced for planting windbreaks and shelterbelts. The palmate leaf sample must come from a native Oklahoma species.

- **Wood Sample Exhibit**

Wood sample exhibits should conform to instructions outlined by age group in Oklahoma 4-H fact sheet no. 238, Wood Sample Exhibits, <http://4h.okstate.edu/literature-links/lit-online/environmental-science/forestry>.

04. All ages: The exhibit shall consist of eight (8) wood samples four (4) hardwoods and four (4) softwoods, each showing the end, edge and surface grain displayed on a board ¼"x22"x20" (thick x width x height)

- **Self-Determined Exhibit**

Self-determined exhibit suggestions are listed in 4-H member's guide, 4-H Forestry Self-Determined Exhibits, no. 239, <http://4h.okstate.edu/literature-links/lit-online/environmental-science/forestry>.

- This exhibit shall consist of a poster, model, or any one of a great number of other creative efforts by the club member which relates to the science and technology of forestry or is otherwise directly related to forestry. If display not to exceed 36" x 36" (depth x width) or poster not to exceed 14" x 22".

05. Self-Determined Exhibit (ages 8 to 13)

06. Self-Determined Exhibit (ages 14 & over)

Geology (Division 4317)

- Any eligible 4-H member may participate in collecting, identifying and preparing a rock/mineral/fossil exhibit or preparing an energy and petroleum exhibit.
- An individual 4-H member can enter one exhibit per class. **NEW** All exhibitors must be at least 8 years old AND in the 3rd grade by September 1, 2018.
- Awards:
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:

○ First place: \$7	○ Second place: \$5	○ Third place: \$3
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Rock/Mineral/Fossil Exhibits

- Exhibitors should securely mount their specimens in a wooden display case with a glass or rigid plastic cover. Display box should be one of the following sizes: current entomology box -19"x16.5"x3" or the previous size entomology box, 18"x24"x3.5". **Note:** Class 01 may be displayed on 18"x24" plywood or stiff cardboard that is suitable for hanging, although a box is recommended. Each sample should be mounted and labeled in a neat, orderly manner. Labels should include common name, date, location found and mineral use. At least one-third of the specimens in any collection must have been added during the current project year.
- Classes:
 01. 15 different unpolished rocks, minerals or fossils collected from Oklahoma
 02. 30 different unpolished rocks, minerals or fossils, including specimens of sedimentary, igneous and metamorphic
 03. Open class: Educational exhibit depicting some phase of geology, testing of minerals, polished rocks, etc. Display should not exceed 24"x24"

Energy/Petroleum Exhibits

- Posters must be on 14"x22" poster board, and must be signed and dated on the back in permanent marker prior to laminating. The judging committee may mark or punch if not marked. Text of posters and displays should be readable from at least 10 feet away. Displays should be self-standing and not bigger than 3'x3' (width x depth) when sides are extended.
 - Junior division (ages 8 to 12)
 04. **Poster on well-site safety**

05. **Energy/Petroleum Display:** Subject of the display should be petroleum products, different types of energy, how they work or different careers in energy.
06. **Energy or Petroleum Science Experimental Display:** Science fair type. 4-H members are encouraged to: use their 4-H projects as the basis for their scientific research and discovery; use the scientific method to gain an understanding of how things work and the variables that affect them; take an open and creative approach to problem solving; learn that a successful outcome is based not on personal opinion but on scientific fact; and use written and visual communication skills.
- Intermediate division (ages 13 to 14)
 - 07. **Photography Exhibit:** over a state park or geological region. Four (4) photos mounted on 14"x14" poster board with detailed explanations and information.
 - 08. **Poster on Water Mineral Issue:** Subject of poster should be one of the following:
 - What water hardness and mineral testing can determine
 - Secondary recovery methods
 - Dangers of lead in the water
 - 09. **Energy or Petroleum Science Experimental Display:** Science fair type. 4-H members are encouraged to: use their 4-H projects as the basis for their scientific research and discovery; use the scientific method to gain an understanding of how things work and the variables that affect them; take an open and creative approach to problem solving; learn that a successful outcome is based not on personal opinion but on scientific fact; and use written and visual communication skills.
 - Senior division (ages 15 & over)
 - 10. **Poster of a press release:** collected about the energy information and your interpretation - possibly the energy index or other topic.
 - 11. **Energy or Petroleum Display:** Subject of the display should be areas of the Oklahoma Energy Index, different drilling techniques, how they work or careers in the energy industry.
 - 12. **Energy or Petroleum Science Experimental Display:** Science fair type. 4-H members are encouraged to: use their 4-H projects as the basis for their scientific research and discovery; use the scientific method to gain an understanding of how things work and the variables that affect them; take an open and creative approach to problem solving; learn that a successful outcome is based not on personal opinion but on scientific fact; and use written and visual communication skills.

Wildlife Projects (Division 4318)

- Only one (1) exhibit will be allowed in each class per individual in their respective age category. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- All exhibits will be judged on the basis of instructions and standards explained in the 4-H Wildlife Project Exhibit Preparation Guidelines, no. 720 revised 12/2006. This, and other publications listed below, are available at the County Extension Office or <http://4h.okstate.edu/literature-links/lit-online/environmental-science/wildlife-and-fisheries>
- Self-Determined Exhibits: To encourage members to develop their own learning projects. A self-determined exhibit class is included in each category. For ideas and guidelines for, please see 4-H Wildlife Self-Determined Projects, no. 721 "**4-H Wildlife Self Determined Projects**" revised 12/2006 and 4-H NREM 624, Creating a Wildlife Resource Map. Text of posters should be readable at least 10 feet away.
- Include references for information. At least one (1) reference must be from a source other than the internet.

- All 4-H exhibits should be the original work of the 4-H member. When information is taken from books, publications, magazines or the internet, it should be expressed in the 4-H members own words. The 4-H member must reference the source of the information by using an asterisk (*) or a number, if more than one (1), and name the actual source at the end of the paper, poster or educational display following an asterisk or the corresponding number in text.
- No copyrighted or trademark protected written or visual material (pictures, photos, drawings, illustrations, etc.) should be used from books, magazines, publications or the internet without permission from the original creator. If the 4-H'er applies for, and is granted, permission to use a copyrighted or trademark protected item, a copy of the permission form or letter needs to be attached to the back of the exhibit and properly cited with an asterisk or number. If an item that is not protected is used its source must be cited and referenced by using an asterisk or number, and the source information placed at the end of the paper, poster or educational display, following an asterisk or corresponding number.
- All posters, resource maps and displays must be permanently signed and dated on the back. If not marked, the judging committee may mark or punch. Text of posters or educational displays should be readable from at least 10 feet away. All exhibits on boards must have hangers. Eye screws and wire preferred. No saw-toothed hangers.
- Awards:
 - Only first thru fifth place will be displayed.
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:

○ First place: \$7	Second place: \$5	Third place: \$3
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- Classes:
 - **Oklahoma Wildlife**
Exhibits entered in this section should relate to a specific category of game/non-game animals or birds.
 - Junior (ages 8 to 13)
 01. A collection of 15 different kinds of plants, trees or shrubs, known to provide food or cover for wildlife. Mounted on food and cover cards, or seed board, with 15 different kinds of seeds eaten by wildlife (see 4-H lit. no.720 revised 12/2006). No more than four (4) varieties may be cultivated crops. All of the specimens must have been collected during the current project year. For each plant or seed included list one (1) wildlife species that use that plant or seed (on the cover card or board). All plant species must be native to Oklahoma except that up to four (4) of the plants/seeds may be from cultivated crops.
 02. Scrapbook of Oklahoma Wildlife: Cutouts, pictures or drawings of at least five (5) mammals, five (5) birds and five (5) reptiles/amphibians. Provide the common name and what habitat they can be found in. Common names should be specific (i.e. black rat snake, pygmy rattlesnake, etc.)
 03. Exhibit of eight (8) wild animal/bird tracks commonly found in Oklahoma. POSITIVE plaster casts should be mounted on masonite or plywood, not to exceed 12"x24". Label each track with kind of animal/bird, county was found in, habitat was found in and date the track was cast.
 04. Self-Determined Exhibit: Posters must be 14"x22", displays must not exceed 3'x3'. Possible examples include, but are not limited to: a display dealing with methods of identification of waterfowl, a poster on wildlife or environmental careers (see 4-H lit., no. 721, Self-Determined 4-H Wildlife and Fisheries Project Ideas, for additional examples).
 - Senior (ages 14 to 18)
 05. A collection of 30 plants known to furnish food or cover for wildlife, mounted on food and cover cards, or a seed board with 30 plant seeds known to furnish food or cover for wildlife. No more than six (6) varieties may be cultivated crops. At least half of the

specimens must have been collected during the current project year. For each plant or seed include three (3) wildlife species that use that plant/seed (on the cover card or board). Species names must be used for both plants and wildlife in addition to the common name. All species must be native to Oklahoma, except up to six (6) may be from cultivated crops.

06. Evaluation of an Oklahoma habitat: includes: a general description of the habitat plant and animal species - species names must be used for plants/wildlife, in addition to the common names - that occur within the habitat, a range map showing the habitat's distribution within Oklahoma and threats to that habitat. Examples include: playa lakes, tallgrass prairie, cross-timbers and shortgrass prairie.
 07. Self-Determined Exhibit: Posters must be 14" x 22", and displays must not exceed 3' x 3'. Examples include, but are not limited to: description of a Wildlife Management Area detailing area, location, habitat, management and wildlife population trends, if known; or a poster with an emphasis on the lifecycle, status, range map and habitat of an Oklahoman threatened/ endangered species. Species names must be use for plants/wildlife, in addition to common names (see 4-H lit., no. 721, Self-Determined 4-H Wildlife and Fisheries Project Ideas, for additional examples).
- 4-H Fisheries
 - Junior (ages 8 to 13)
 08. Display board showing the steps in tying two (2) kinds of fishing knot used in tying lines or leaders. Use cord instead of fishing line. Mount on board suitable for hanging, not to exceed 12"x12".
 09. Notebook describing habits and appearance of five (5) fish found in Oklahoma. Information on each fish to include photo, drawing or cut-out picture, proper common name, kind of food eaten, distinctive physical characteristics, best ways to catch and other topics of interest to anglers.
 10. Display of five (5) member assembled lures, together with the materials from which they were assembled, mounted on a board not to exceed 12"x16". Lures may be spinners, jigs, flies, plugs or a combination of these. May be entirely homemade or assembled from purchased supplies.
 11. Self-Determined Fish Project: Educational report, display or project created by the member. Topic to deal with fish, fishing, fish farming, aquatic food chains or pollution in Oklahoma waters. Displays not to exceed 3'x3' with sides extended. Posters must be 14"x22".
 - Senior (ages 14 to 18)
 12. Notebook describing habits and appearance of 10 fish found in Oklahoma. Information on each fish to include photo, drawing or cut-out picture, proper common name, kind of food eaten, distinctive physical characteristics, best ways to catch and other topics of interest to anglers.
 13. Display of five (5) fishing flies tied by the exhibitor. The material and shape of the exhibit will be exhibitor's choice, but cannot exceed 12"x12". Attach a report to the board with the following information about each fly: type of fly, type of fish it is used to catch, habitat conditions it is used in and the cost to purchase/make.
 14. Display of five (5) fishing lures. Lures may be any type commonly used in sport fishing. The material and shape of the exhibit board will be exhibitor's choice, but cannot exceed 12"x12". Attach a report to the board with the following about each lure: type of lure, type of fish it is used to catch, habitat conditions it is used in and cost to purchase/make.
 15. Self-Determined Fish Project: Educational report, display or project created by the member. Topic to deal with fish, fishing, fish farming, aquatic food chains or pollution in

Oklahoma waters. Displays not to exceed 3'x3' (width x depth) with sides extended. Posters must be 14"x22".

○ **4-H Bird**

The following OK 4-H online publications are excellent resources, along with those listed in exhibit text for learning more about birds and birding: 4-H NREM 620, "Bird Watching – A Beginning"; 4-H NREM 621, "Using Binoculars"; and 4-H NEREM 622, "I Think It Is A..." No. 622 contains a list of additional resources. These and other publications listed below are available at the County Extension Office or <http://4h.okstate.edu/literature-links/lit-online/environmental-science/wildlife-and-fisheries>

▪ **Junior (Ages 8 to 13)**

16. **Display of a home constructed bird feeder** (may be from a kit): must include a 3"x5" index card tacked to the feeder with the following information: what species was it constructed for, and the habitat/site location, including height, it would be placed in. The display should be functional and not decorative.
17. **Display of a single unit birdhouse, home constructed** (may be from a kit): must include a 3"x5" index card tacked to the house with the following information: what bird species the house was constructed for and the habitat/site location, including height, the house will be placed in. The display should be functional and not decorative.
18. **Notebook of 15 pictures, drawings or photos** of birds seen and identified by the member and labeled with common name of each.
19. **Self-Determined Poster:** Poster must be 14"x22". For ideas, see Oklahoma 4-H publication no. 721, Self-Determined 4-H Wildlife & Fisheries Project Ideas, and for the guidelines, see 4-H Wildlife Project Lit, no. 720, Exhibit Preparation Guidelines Leaders/Members Guide.
20. **Observation report for bird feeder** used during the previous year, including a photo of feeder at the location used (see Oklahoma 4-H lit., no. 723, Bird Feeding Station Report). May use a constructed or purchased feeder.
21. **Observation report for bird house** used during previous year, including a photo of the house at location used (see Oklahoma 4-H lit., no. 724, Birdhouse Observation Report). May use a constructed or purchased birdhouse.

▪ **Senior (Ages 14 to 18)**

22. **Bird Habitat Improvement Exhibit:** Notebook of pictures or drawings explaining how the exhibitor is developing or improving a bird habitat. This exhibit may be added to or continued from year to year as habitat improvements are implemented.
23. **Notebook of bird, feeder or nest/house observation** records for more than the current year. Include a picture of house/feeder at the location used with analysis of comparisons in observations for years observed (see observation reports in Oklahoma 4-H lit., no. 723, Bird and Nest Observation; no. 723, Bird Feeding Station; and no. 724 Bird Observation).
24. **Self-Determined Bird Project:** If poster must be 14"x22". If display must not exceed 3'x3'. For ideas, see Oklahoma 4-H pub., no. 721, Self-Determined 4-H Wildlife and Fisheries Project Ideas, and for guidelines, see 4-H Wildlife Project lit., no. 720, Exhibit Preparation Guidelines Leaders/Members Guide.

○ **4-H Wildflower Study**

- At least one-third of the specimens must have been collected during the current project year.
- For information on pressing plants, see 4-H publication no. 237 (revised 04/2004), Leaf Pressing and Collecting Hints, to prepare plants for collections and exhibits.
- Diagrams and posters should be hand generated and not downloaded from the internet or computer.

- Download the Wildflower Card (Oklahoma 4-H Lit no.718) at, <http://4h.okstate.edu/literature-links/lit-online/environmental-science/wildlife-and-fisheries>. Print the form on cardstock or heavy paper and hole punch.
- Junior (ages 8 to 13)
 25. **Collection of 18 Oklahoma wildflowers** properly pressed and mounted on wildflower cards. Label with common name flower family and tell location and date collected. Display in a notebook.
 26. **Drawing or diagram** showing parts of a wildflower blossom, not to exceed 8.5"x11".
 27. **Self-Determined Poster:** Poster must be 14"x22". For ideas, see Oklahoma 4-H publication no. 721, Self-Determined 4-H Wildlife & Fisheries Project Ideas, and for guidelines, see 4-H Wildlife Project lit. no. 720, Exhibit Preparation Guidelines Leaders/Members Guide.
 28. **Display two (2) principle wildflower families** showing four (4) or more pressed flowers of each family labeled with common name. A brief description of each flower family should be included. Poster must be 14"x22" or displayed in a notebook.
 29. **Make a Collection:** mount and press with the plant leaves showing leaf arrangements (opposite, alternate and whorled); types of leaves (simple, pinnately compound, palmately compound); leaf margins (toothed, smooth and lobed). The collection must be displayed on a 14"x22" poster displayed in a notebook on cardstock or wildflower cards (Lit. no. 718).
- Senior (ages 14-18)
 30. **Collection of 25 Oklahoma wildflowers** properly pressed and mounted on wildflower cards. Label with common name, scientific name, flower family, location collected, date collected and habitat collected from. Display in a notebook.
 31. **Make a collection** and mount, for display, at least 15 kinds of wildflower seed that show various adaptations to dispersal by wind, water, birds and mammals.
 32. **Special Collections:** A collection of specimens in some special category, i.e.: one (1) family, poisonous, dyes, edibles or specific season such as early spring. The collection must be displayed on a 14"x22" poster displayed in a notebook on cardstock or wildflower cards (Lit. no. 718).
 33. **Self-Determined Exhibit:** Poster must be 14"x22" and the display must not exceed 3'x3'. For ideas, see Oklahoma 4-H Publication no. 721, Self-Determined 4-H Wildlife & Fisheries Project Ideas, and for guidelines, see 4-H Wildlife Project Lit no. 720, Exhibit Preparation Guidelines Leaders/Members Guide.

Environmental Stewardship (Division 4319)

- A 4-H member may enter one exhibit per class, but is restricted to those exhibits designed for his or her age group. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Exhibits will be judged based on the criteria outlined in the 4-H project fact sheets available from the County Extension Office.
- Text of posters should be readable at least 10 feet away. Include references for information. At least one (1) reference must be from a source other than the internet. Posters must not be printed directly from the internet—this is plagiarism.
- Each piece of exhibits containing more than one (1) item must be labeled with exhibitor's name and county. Posters **must** be signed and dated on the back.
- Publications listed in this section can be found at, <http://4h.okstate.edu/literature-links/lit-online/environmental-science/environmental-science>
- Awards:
 - Ribbons will be placed on the top 10 exhibits in each class.

- Premium scale:
 - First place: \$7
 - Second place: \$5
 - Third place: \$3
- Classes:
 01. **Vermi-Composting with Worms** (ages 8 to 13): Compost sample and poster that explains how to compost with worms. Must include report for one (1) or more of the following areas: bins for vermi-composting, feeding and care, moisture requirements and harvesting compost. Poster must be on 14"x22" and include a photograph of your compost bin. One (1) pint of compost (worm castings) in a sandwich-size zip-lock bag or pint jar with lid must be included.
 02. **Exploring Streams and Lakes Poster** (ages 8 to 13): Poster must be 14"x22" with photos showing a stream, lake or pond you have visited. Photos should show things like shorelines or creek banks, appearance of the water, condition of vegetation on the shore or banks, and problem areas such as erosion, trash or obvious pollution. For more ideas, see Lit. no. 19, Water Quality of Streams and Lakes, related report form is no. 20. Each photo must have a caption explaining what is shown. Overall, the poster should tell what you think is helping or harming the water, or the plants and animals that live there. Members entering this project for the second or third year should compare changes over time or season. The poster title should include: name of water body, if applicable, and the town or county where it is located.
 03. **Water Critters** (ages 8 to 13): Display a collection of pond, lake or stream critters (invertebrates only – no animals with backbones e.g. fish or frogs) preserved in one (1) to three (3) baby food jars with rubbing alcohol as described in Lit. no. 21, Aquatic Organism. Securely attach a completed Critter ID bookmark (see Lit. no. 29, Stream and Lake Critter Identification) to the jar using tape and a string around the jar neck. Do not include more than one (1) of each critter type. Collect only critters found on or in the water, not adult flies. Write a short paragraph telling about the value of water critters - read and summarize in your own words Lit. no. 21 or related materials. Optional: include one (1) single-sided page of labeled photos or drawings of the site/ collecting activity.
 04. **Where Does My Water Come From Poster** (ages 8 to 11): Poster must be 14"x22" showing/ describing the source of your water (lake, aquifer, private well) and/or what is done to it (water treatment plant, in-home filtration system) before it gets to your home. For ideas, see Lit. no. 19, Water Quality of Streams.
 05. **Natural Resources of My County Poster** (ages 8 to 13): Poster must be 14"x22" with photos showing a mixture of local natural resources like prairies, forests, scenic views, water bodies, agriculture, wildlife or similar things. Each photo must have a caption naming the resource. Overall, the poster should convince the reader that your county is a great place to live. Poster title should be at least 1" tall and include the country name.
 06. **Recycled Item** (ages 8 to 11): useable item made from trash other than craft type item. Original ideas and useful items will rank higher. Attach 3"x5" card listing all materials used.
 07. **Aquatic Habitat Poster** (ages 12 to 14): Poster must be 14"x22" with photos showing a stream, lake or pond you have visited. Photos should illustrate distinct habitats such as shoreline vegetation; undercut banks, rocky shores, riffles, pools or runs. Each photo must have a caption explaining what it shows. For more ideas, see Lit. no. 21, Aquatic Organism. Overall, the poster should comment on things you observed that could be helping or harming the critters or their habitat. Members entering this project for the second or third year should compare changes over time or season. The poster title should include water body name, if applicable, and town/county where located.
 08. **Homemade stream or lake sampling equipment** (ages 12 to 14): Display one (1) piece of stream or lake sampling equipment you have made. Write a one (1)-page report explaining its purpose and how to use it. Some possibilities include secchi disks, plankton

- tows, deep-water samplers and kick nets. For instructions on how to make equipment, see TVA booklet, Homemade Sampling Equipment. Optional: Include one (1) single-sided page of labeled photos or drawings showing equipment in use.
09. **What is a Watershed?** (ages 12 to 14): Poster must be 14"x22". Describe what watersheds are and how they work. Title must contain the word "watershed". For ideas, see Lit. no. 24, Human Impact on Streams.
 10. **Recycled Item** (ages 12 to 14): useable item made from trash other than craft type item. Original ideas and useful items will rank higher. Attach 3"x5" card listing all materials used.
 11. **Natural Resources of My County Poster** (ages 14 to 18): Poster must be 14"x22" with your photos showing a mixture of local natural resources like prairies, forests, soils, scenic views, water bodies, agriculture, wildlife or similar things. It is desirable to show people using the resource. Each photo must have a caption naming the resource and explaining how people use and enjoy it. Overall, the poster should convince the reader that your county is a great place to live. Poster title should be at least 1" tall and include the country name.
 12. **Stream, Pond or Lake Poster** (ages 14 to 18): Poster must be 14"x22" with photos showing a stream, pond or lake you have visited. Poster should show things people have done/might do, along the shore or in the watershed that can harm this stream, pond or lake. For ideas, see Lit. nos. 21 and 24. Poster title must include name of water body and town/county where located.
 13. **Water Critters** (ages 14 to 18): Display a collection of pond, lake or stream critters (invertebrates only – no animals with backbones e.g. fish or frogs) preserved in baby food jars with rubbing alcohol as described in Lit. no. 21, Aquatic Organism. Collect in only one (1) water body. Separate critters from different habitats into different jars, labeled with habitat name. Do not include more than one (1) of each critter type in each collection jar. Collect only critters found on/in the water, not adult flies. Write a one (1)-page report on three (3) of your critters explaining how they are adapted to their habitat. For ideas, see Lit. no. 21, Aquatic Organism. Use the Bookmark Critter ID rating form instructions (Lit. no. 29) to calculate the water quality rating for your water body and include results in your report.
 14. **Homemade stream or lake sampling equipment** (ages 15 to 18): Display one (1) piece of stream or lake sampling equipment that you have made. Write a one (1)-page report explaining its purpose and how to use it. Some possibilities include secchi disks, plankton tows, deep-water samplers, and kick nets. For instructions on how to make equipment, see TVA booklet, Homemade Sampling Equipment. Optional: include one (1) single-sided page of labeled photos or drawings showing equipment in use.
 15. **Illegal Dumping Poster** (ages 15 to 18): Poster must be 14"x22". Discourage illegal dumping and explain how illegal dumps can contaminate water or create other problems.
 16. **Landfill Display** (ages 14 to 18): Display showing how landfills work. Display must not exceed 3'x3' when sides are extended.
 17. **Recycled Item** (ages 15 & over): useable item made from trash other than craft type item. Original ideas and useful items will rank higher. Attach 3"x5" card listing all materials used.
- o All Levels
18. **Group Environmental Project Display** (all ages)
 - This exhibit is to consist of a display and a written report of an environmental project carried out by four (4) or more 4-H members under the supervision of a 4-H leader. The project may focus on any area of environmental stewardship including recycling, education about a local environmental issue, planting trees or other area of interest. Display must not to exceed 3'x3'.

- Judging criteria:
 - A brief project description and statement of purpose and objectives
 - Creativity and quality of project
 - A brief summary of project activities, extent to which objectives were achieved, knowledge gained, significance of the project to the environment in the community, and the number of people involved and/or impacted by project
 - Media campaign: include copies of newspaper clippings and other publicity related to the project
 - Photographs may be included
- 19. Individual Self-Directed Environmental Stewardship Project**
 - Educational report, display or exhibit on the efforts of the member to protect or improve the environment in or near his/her community. Projects may include topics such as: protecting water quality, recycling, illegal dumping, household hazardous wastes, reducing soil erosion on farmland, controlling urban runoff or other topics relevant to the community. Project may include: hands-on efforts, such as, controlling erosion by tree planting or use of buffer strips; educational programs conducted in the community, including numbers reached and newspaper clippings, such as, minimizing solid waste; or a combination of hands-on and educational.

PLANTS AND ANIMALS

Crops (Division 4320)

- The exhibitor must grow all crop exhibits during the year exhibited. Only one exhibit allowed in each class per individual. Grain may not be returned to the exhibitor except for the following legumes: alfalfa, sweet clover and vetch.
- Grain and crop seed exhibits should be brought and exhibited in one (1) gallon clear jars, plastic or glass, with a lid. Alfalfa and small seeded legumes can substitute half-gallon clear jars.
- Exhibits of bolls of cotton, ears of corn or heads of grain sorghum should be brought and exhibited in a shallow wooden, plastic or cardboard box of appropriate size for the respective exhibit.
- **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Awards:
 - Ribbons will be placed on the top 10 in each class.
- Premium scales:
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - **4-H Cotton Exhibit**
 - 01. Any Variety - 20 open bolls.
Exhibit to be shown with petiole attached, bract leaves removed and burr side up.
 - **4-H Corn Exhibit**
 - 02. 10 ears of corn
 - **4-H Grain Sorghum Exhibits**
 - 03. 10 heads of grain sorghum - exhibit to be trimmed with 2.5" of peduncle left on the head
 - 04. Threshed Grain sorghum exhibit - 15 lbs. grain
 - **4-H Canola Exhibit**
 - 05. Canola
 - **4-H Small Grain Exhibit**

- *All exhibits of wheat must be labeled as to specific variety or name of hybrid. Small grain exhibit shall be approximately one peck. For suggested varieties, see the Oklahoma Cooperative Extension Fact Sheet PSS-2168 Maturity Classification of Wheat Varieties, <http://wheat.okstate.edu/wheat-management/varieties/PSS-2168.pdf>.*
- 06. Very Early and Early Maturity Hard Red Wheat Varieties
- 07. Medium Maturity Hard Red Wheat Varieties
- 08. Late and Very Late Maturity Hard Red Wheat Varieties
- 09. Hard White Winter Wheat Varieties
- 10. Any other wheat variety not listed
- 11. Oats, any variety
- 12. Rye, any variety
- 13. Barley, any variety
- **4-H Legume Seed Exhibit**
 - 14. Two (2) quarts of Alfalfa
 - 15. Two (2) quarts of other small seeded legumes, such as vetch, sweet clover, etc.
 - 16. One (1) peck of Soybeans
 - 17. One (1) peck of other large seeded legumes, such as cowpeas, mung beans, winter peas, etc.
 - 18. One (1) peck of peanuts, any type, any variety
- **Peanut Information Exhibit**
 - Eligibility: Any 4-H member interested in learning more about peanuts and the peanut industry may prepare an exhibit. Each county may have one (1) exhibit in each class.
 - The exhibit shall consist of an educational exhibit that will fit a 3'x3' (wide x deep) space when the sides are extended and must be freestanding. A 4-H notebook should be included in the display.
 - The exhibit should provide information about one (1) phase of the peanut industry such as: history, use, production, processing or importance. The exhibit should increase the public awareness of the importance and impact of the specific sector of the peanut industry selected. The notebook should include any involvement the exhibitor has had with teaching others, giving talks or demonstrations, preparing peanut foods, planning programs, producing peanuts, etc. The notebook may be typed or handwritten and should include pictures.
 - Judging criteria:
 - Completeness of educational lesson – 30 points
 - Public appeal – 30 points
 - Notebook – 40 points
 - Awards:
 - Ribbons will be placed on the top 10 in each class.
 - Plaque will be given to first place in each class.
 - Premium scale:

○ First place: \$40	Second place: \$30	Third place: \$20
Fourth place: \$10	Fifth place: \$10	
 - Classes
 - 19. Junior division (ages 9 to 13)
 - 20. Senior division – fourth year & above (ages 14 & over)
- **Crops In Our Lives Poster Exhibit**
 - Posters must be 14"x22" and be permanently signed and dated on the back prior to laminating. The judging committee may mark or punch if not marked. Text of posters should be readable from at least 10 feet away.

- Choose an agronomic crop and create a poster depicting one (1) of the following topics related to that crop:
 - History - domestication process, global spread via immigrants, etc.
 - Production
 - Use in different cultures
 - Use in different processed foods
 - Process from farm to table
- Classes:
 21. Ages 8 to 11
 22. Ages 12 to 14
 23. Ages 15 & over

Forage Plants (Division 4321)

- 4-H members may have one (1) exhibit per class. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- The exhibitor's name, age and county must be on the back of the display board.
- References for the displays are:
 - Field Guide to Oklahoma Plants, OSU Rangeland Ecology and Management Publication, contact OSU County Extension Office or Natural Resources Conservation Service Office
 - National Range Judging Contest 4-H Manual no. 149
 - A Checklist of Prairie, Shrubland, and Forest Understory Plants of Oklahoma, OSU Fact Sheet F-2872
 - Bobwhite quail Habitat Evaluation and Management Guide, OSU Circular E-904
 - White-tailed Deer Habitat Evaluation and Management Guide, OSU Circular E-979
- Classes 01 to 04 are exhibits of 10 native or introduced, annual, biennial or perennial plants, mounted on plywood, pegboard or other suitable material approximately 3'x3'. Two (2) holes ½" in diameter and 1" from the top should be drilled in the board to facilitate displaying the exhibit. Exhibitor must sign and date the board on the back.
- Plant specimens must have been collected during the current project year.
- Single plants or bundles should not exceed 1" in diameter. No plant should extend above or below the display board. Plants must be labeled with the common name. Judges will use references listed above.
- Label with letters approximately ½" high. Labels may be placed above, below, or across the plants.
- Awards:
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:

○ First place: \$7	○ Second place: \$5	○ Third place: \$3
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- Classes:
 01. Forages with desirable grazing value for cattle
 02. Forages with undesirable grazing value for cattle
 03. Forages with desirable browsing value for wildlife (must list species)
 04. Forages with undesirable browsing value for wildlife (must list species)

Home Gardening (Division 4322)

- Only one (1) exhibit allowed in each class per individual.
- **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Awards:
 - Ribbons will be placed on the top 10 in each class.
 - Only first thru fifth places will be displayed, other entries will be donated to charity.
- Premium scale:

- First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - 01. Potatoes, yellow, white or russet, 3 specimens
 - 02. Potatoes, red, 3 specimens
 - 03. Okra, 6 pods
 - 04. Onions, yellow, 3 specimens
 - 05. Onions, white, 3 specimens
 - 06. Onions, red, 3 specimens
 - 07. Pumpkin, field type (oblong), one
 - 08. Pumpkin, jack-o-Lantern (round and flat), one
 - 09. Squash, winter, acorn, one
 - 10. Squash, winter, butternut, one
 - 11. Squash, winter, other
 - 12. Eggplant, 2 specimens
 - 13. Squash, summer, zucchini, 2 specimens
 - 14. Squash, summer, yellow straight neck, 2 specimens
 - 15. Squash, summer, yellow crook neck, 2 specimens
 - 16. Squash, summer, patty pan (scallop type), 2 specimens
 - 17. Sweet Potatoes, (any variety), 3 specimens
 - 18. Pepper, jalapeno, 5 specimens
 - 19. Pepper, other hot pepper, 5 specimens
 - 20. Pepper, sweet bell pepper, 5 specimens
 - 21. Pepper, banana pepper, 5 specimens
 - 22. Tomatoes, large type, 5 specimens
 - 23. Tomatoes, cherry type (1 1/2" or less in diameter), 5 specimens
 - 24. Watermelon, oblong type, one
 - 25. Watermelon, round type, one
 - 26. Watermelon, small icebox, one
 - 27. Red apples, plate of five
 - 28. Yellow Apples, plate of five
 - 29. Pears, plate of five
- **Home Garden Food Basket**
 - This exhibit is a quality selection of from five (5) to nine (9) different species of mature fruits and/or vegetables from the exhibit list above. Items not listed above can be used, but should not be more than one-third of the species utilized. Amounts of fruits and/or vegetables in this exhibit should be such that they can be arranged in a neat and orderly manner and have good eye appeal. There must be enough of each fruit or vegetable for the judge to determine quality.
 - The exhibitor must grow all fruits and vegetables exhibited.
 - No specimens in this exhibit may be entered in another class. Any combination of fruits and vegetables may be used.
 - The exhibit must be in a container, such as a basket or box.
 - One-third of the judging will be on how well the exhibit is prepared and presented. Packing such as paper, straw or cloth may be used but the fruits and vegetables should be the main attraction of the exhibit. No artificial plant material or specimens can be utilized as part of the exhibit.
 - Classes:
 - 30. Junior division (ages 8 to 13)
 - 31. Senior division (ages 14 & over)

Giant Pumpkin Contest

Sponsored by Oklahoma Fruit and Vegetable Association (OFVA)

- All 77 Counties can bring Pumpkins. Held only at the Oklahoma State Fair.
- One (1) fruit of any variety of pumpkin or pumpkin-type squash may be entered.
- Entry limited to Oklahoma 4-H and FFA members only.
- The submitted fruit must have been grown in Oklahoma by a 4-H or FFA member.
- The fruit must be free of damage that would limit storage and exhibition. It should be intact, without lesions, cuts or open wounds.
- **NEW DAY-NEW TIME:** Fruits will be weighed to determine the heaviest, on Tuesday, September 11, 2018 at 11 a.m.
- The OFVA will supervise the weighing and select those retained for exhibition during OSF, all others will be sent home.
- Awards:
 - OFVA will give trophies to the top 3 heaviest entries.
- Premium scale:

○ First place: \$100	Second place: \$50	Third place: \$25
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- Classes:
 - 32. Giant Pumpkin

Home Grounds (Division 4323)

- Only one (1) exhibit allowed in each class per individual. Counties may have one exhibit per class.
- **NEW** All exhibitors must be at least 8 years old AND in the 3rd grade by September 1, 2018.
- **Judging Criteria**
 - A brief project description and statement of purpose and objectives.
 - Creativity demonstrated and quality of the project:
 - Extent to which plan integrates total needs of area, short- and long-term
 - Functional use and aesthetic considerations of horticultural materials and techniques
 - Operational considerations of expenses encountered, resource personnel contracted and maintenance factors
 - Before and after photographic sequence to illustrate effectiveness of the project.
 - A brief summary of project activities, extent to which objectives were achieved, knowledge gained and the particular significance of the project toward the improvement and beautification of your environment.
 - Newspaper clippings and other publicity of the project.
- **Unit 1: Landscaping Home Grounds**
 - Before and after pictures not to exceed 5"x7" of yard clean up, plantings or construction of landscape elements mounted securely on one (1) 14" x 22" poster board. Posters must be permanently signed and dated on the back.
 - A minimum of two (2) and a maximum of eight (8) pictures should be included. Neatness and arrangement of pictures is important. A brief explanation of the project should be attached to the exhibit and each picture must be labeled. The before and after pictures should show a definite change and should be taken from the same place so judges can evaluate the change. An exhibit should not be entered more than once, unless it has been substantially revised.
 - Awards:
 - Ribbons will be place on top 10 in each class.
 - Premium scale:

• First place: \$7	Second place: \$5	Third place: \$3
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 - Classes:
 - 01. Junior division (ages 8 to 13)
 - 02. Senior division (ages 14 & over)

- **Unit 2: Herbarium Card**

- These exhibits shall consist of dried and pressed specimens of leaves and other specified parts of native or cultivated trees, vines and/or shrubs. Each leaf specimen should be mounted on a separate 8"x10" herbarium card, available at your county extension centers or <http://4h.okstate.edu/literature-links/lit-online/plant-science-entomology/plant>. Only the information required in your division should be filled out. The cards should be enclosed in a notebook or binder. Each specimen should be covered with a transparent plastic or similar covering to protect it from damage. No leaf should be more than three (3) years old and at least one-third of the specimens must have been collected during the current project year. Instructions for collecting and pressing are available in the OSU Extension Center.
- Classes:
 - 03. Ages 8 to 11: A collection of 15 specimens with the following information: common name, general class and kind of plant.
 - 04. Ages 12 to 14: A collection of 25 specimens with a pressed flower or fruit or seed included with each specimen, including the following information: common name, general class, kind of plant, form, color and exposure.
 - 05. Ages 15 & over: A collection of 30 specimens with a pressed flower, fruit or seed included with each specimen, and all information on the card should be filled out.

- **Unit 3: Group or Club Exhibit**

- 06. This exhibit to consist of landscape or environmental beautification project report on a project such as home grounds, school, community center, church, city or roadside park, highway beautification, cleanup campaign, etc. A group is to consist of three (3) or more 4-H members under supervision of 4-H leaders. All projects must employ horticulture material for the purpose of conserving natural beauty of an area or improving the aesthetic quality and/or function of an area. Other material such as concrete walks, benches, etc., may be used in addition to the horticulture material.

Horticulture (Division 4324)

- **Terrariums**

- Terrarium of plant life. No specific size of container, materials, plants or methods. Judging criteria: compatibility and arrangement of plants and materials; appropriate potting media; attractiveness and originality; and appropriate size of plants for container. Terrariums should feature either woodland or tropical plants, and feature at least three (3) different species of plants. Terrariums must be completely covered at all times. Refer to OSU Fact Sheet No. F-6438 or a similar guideline.
- Terrariums containing succulents will be disqualified. Succulents belong in dish gardens.
- **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- Awards:
 - Ribbons will be placed on top 10 in each class.
- Premium scale:
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - 01. Ages 8 to 11
 - 02. Ages 12 to 14
 - 03. Ages 15 & over

- **Dish Gardens**

- Dish garden of plant life. Judging criteria: compatibility and arrangement of plants, potting media, and containe; attractiveness and originality; and appropriate size of plants for

container. Dish gardens may feature succulents, carnivorous plants or foliage plants. Dish Gardens should feature at least three (3) different species of plants. A 4-H/OSU Fact Sheet is currently in production, until then refer to, <http://www.thegardenhelper.com/dish~gardens.html>, or other online or print resources for project ideas and information.

- Awards:
 - Ribbons will be placed on top 10 in each class.
- Premiums will be paid on the top 3 in each class as follows:
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - 04. Ages 8 to 11
 - 05. Ages 12 to 14
 - 06. Ages 15 & over

- **Residential Landscape Design Drawing**

- Develop a landscape design/drawing for the provided residence.
- Drawings are to be made directly on the provided base maps.
- Reference: <http://www.hortla.okstate.edu/research-and-outreach/programs/youth/4-H>
- Guidelines
 - Base maps should be printed on 11"x17" white paper to exhibit landscape drawings horizontally.
 - Create a column on the right side of the sheet for a title block, 2" wide from top of drawing to bottom. List the following in ink: scale, symbols of plants, numbers representing trees, shrubs and plants, and how many of each plant were used in the landscape. *Example: 1 – rose (6), 2 – Oak trees (4), 3 – Petunia (3 dozen or 36).*
 - Name, date and county
 - Drawing is top view (plan view)
 - Use the scale provided: 1" = 10'
 - Hand drawings or CAD drawings are accepted
 - Draw plant symbols at the mature plant size
 - Use provided examples of landscape symbols to draw and/or trace on the base map. Use the provided color rendered landscape drawings for the example of effective designs and color techniques.
 - Walkways should be 3' or 5' wide.
 - Patio(s) are required on the back of the house
 - In the drawings, use a line to indicate the planting beds. All small trees, shrubs and perennials should be inside planting bed. Large trees could be found in the lawn or inside planting beds.
- Awards:
 - Ribbons will be placed on top 10 in each class.
- Premium scale:
 - First place: \$7 Second place: \$5 Third place: \$3
- Classes:
 - 07. Ages 8 to 11
 - 08. Ages 12 to 14
 - 09. Ages 15 & over

- **Horticulture In Our Lives Poster Exhibit**

- Posters must be 14"x22" and be permanently signed and dated on the back prior to laminating. The judging committee may mark or punch if not marked. Text should be readable from at least 10 feet away.

- Choose a fruit, vegetable, nut, spice, crop or beverage (tea, coffee, chocolate), and create a poster depicting one (1) of the following topics related to that crop:
 - History (domestication process, global spread via immigrants, etc.)
 - Production
 - Use in different cultures
 - Use in different processed foods
 - Awards:
 - Ribbons will be placed on top 10 in each class.
 - Premium scale:

● First place: \$7	Second place: \$5	Third place: \$3
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 - Classes:
 10. Ages 8 to 11
 11. Ages 12 to 14
 12. Ages 15 & over
- **Models**
 - Model cold frame or hoop house: mounted on a piece of painted plywood no larger than 12"x12". Must include an explanation of the purpose of the structure, examples of potential uses, correct orientation in the landscape, and materials necessary in its construction. Explanation should be typed or handwritten on a laminated piece of white paper no larger than 8½"x11", and securely attached to the model.
 13. Ages 8 to 11
 14. Ages 12 to 14
 15. Ages 15 & over
 - Model vegetable garden: mounted on a piece of painted plywood no larger than 12"x12". Must include at least five (5) different vegetables, show appropriate orientation (identify 'north') and appropriate spacing of plants. Must include an explanation of the layout of the garden, the spacing requirements of the selected plants, the dates each chosen vegetable would be planted/harvested and any support structures (trellises, cages, etc.) necessary. The explanation should be typed or handwritten on a laminated piece of white paper no larger than 8½"x11" and securely attached to the model. All pieces of the model must be handmade (no store bought fences, mini vegetables, etc.).
 16. Ages 8 to 11
 17. Ages 12 to 14
 18. Ages 15 & over
- **Pecan Information Exhibit**
 - Eligibility: Any 4-H member interested in learning more about pecans and the pecan industry may prepare an exhibit.
 - The exhibit shall consist of an educational exhibit that will fit a 3'x3' (wide x deep) area. It must be freestanding with sides attached. A notebook should be included in the display. Each county may have one (1) exhibit in each class.
 - The exhibit should provide information about the pecan industry, such as: history, importance to state, health benefits & nutrition, uses, production, processing, storage requirements or other topics pertaining to pecan.
 - The exhibit should increase the public awareness of the importance and impact of the specific sector of the pecan industry. The notebook should include any involvement the exhibitor has had with teaching others, giving talks or demonstrations, preparing pecan foods, planning programs, producing pecans, field trips, etc.
 - The notebook may be typed or handwritten and should include pictures.
 - Judging criteria:

- Completeness of educational lesson – 30 points
- Public appeal – 30 points
- Notebook – 40 points
- Awards:
 - Furnished by the Oklahoma Pecan Growers Association.
 - First place entries should be available to display at annual OPGA meeting in June the following summer.
 - Ribbons will be placed on the top 10 in each class.
- Premium scale:

• First place: \$40	Second place: \$30	Third place: \$20
• Fourth place: \$10	Fifth place: \$10	
- Classes:
 19. Junior division (ages 8 to 13)
 20. Senior division (ages 14 & over)

Companion Animals (Division 4325)

- All Companion Animal exhibits should focus on one (1) of the following: animal health and/or nutrition; good husbandry and/or grooming; training and/or showing; and service and/or citizenship.
- Companion animal refers to animals used as household pets, not livestock or wildlife. In cases of animals (i.e. rabbits, turtles, etc.) that can be represented as a companion or a non-companion animal project, it will be up to the 4-H member to ensure their entry represents companionship.
- The 4-H member's name, age and county must be included attached to the exhibit. Exhibits deemed inappropriate will not be displayed. **NEW** All exhibitors must be at least 8 years old AND in 3rd grade by September 1, 2018.
- If you use text, pictures, drawings, artwork or other information not created by you, you must cite the source. See the Copy Written Material and Reference Sources section on page 1.
- When using the official 4-H clover with H's, the tail should curve to the right and the words, 18u.s.c. 707, must appear under the lower right leaflet except if hand drawn clovers.
- Premium scale:

○ First place: \$7	Second place: \$5	Third place: \$3
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- Classes:
 - **Companion Animal Poster:** Illustrating one (1) of the following: animal health and/or nutrition; good husbandry and/or grooming; training and/or showing; or service and/or citizenship. Posters must be 14"x22". For display purposes, exhibitors are encouraged to laminate all posters or cover them with clear plastic film. Posters must be permanently signed and dated on the back. If not marked the judging committee may mark or punch. Posters may be horizontal or vertical. Text of poster should be readable from at least 10 feet away.
 01. Junior (ages 8 to 13)
 02. Senior (ages 14 & over)
 - **Companion Animal Display:** Illustrating one (1) of the following: animal health and/or nutrition; good husbandry and/or grooming; training and/or showing; or service and/or citizenship. Space for the booth is 3'x4' (deep x width) with sides extended for display. Back can be 4" high. Display must be freestanding. Models, photographs, posters or other means for display may be used. An individual or group from a county may prepare display. The exhibit must prominently display a 4-H clover or mention 4-H.
 03. Junior (ages 8 to 13)
 04. Senior (ages 14 & over)
 - **Companion Animal Photo Story Board:** Illustrating one (1) of the following: animal health and/or nutrition; good husbandry and/or grooming; training and/or showing; or service and/or

citizenship. Storyboard should contain four (4) to six (6) photos attached to the surface of either a white or colored piece of foam core, poster or mat board no larger than 14"x22". Each photo should contain a caption. Judging criteria will emphasize content first and photocomposition second. Photos are to be taken by the exhibitor.

05. Junior (ages 8 to 13)

06. Senior (ages 14 & over)

- **Companion Animal Single Photo Entry:** Illustrating one (1) of the following: animal health and/or nutrition; good husbandry and/or grooming; training and/or showing; or service and/or citizenship. Prints must be no smaller than 3.5"x5" and no larger than 5"x7". Digital photos may not be manipulated or altered except for color and contrast adjustments, and red eye reduction. Prints must be securely attached to the surface of a poster board or mat board. No double matting, use of multiple layers or more than one (1) color. The entire print must be seen and cannot be masked in any way. Boards must be no larger than 10"x10". Captions are optional, but not required. Photos are to be taken by the exhibitor.

07. Junior (ages 8 to 13)

08. Senior (ages 14 & over)

- **Me and My Pet Journal:** A 3-ring binder, 3" or smaller, showing activities you and your pet have been doing this past year. Emphasis should be given to: animal health and/or nutrition; good husbandry and/or grooming; training and/or showing; or service and/or citizenship.. It may include, but is not limited to: training notes, photos of you and your pet working on a new trick, newspaper clippings of you and your pet participating in service projects, breeding records, animal health records, and much more. Members are encouraged to keep multiple years in their journal, but the previous years' work should be clearly labeled as such. Judging emphasis will be placed on the current year's work.

09. Junior (ages 8 to 13)

10. Senior (ages 14 & over)

- **Other Companion Animal Item:** Exhibit must have a 3"x5" notecard describing the exhibit, what was done to create or prepare this exhibit and how the exhibit relates to: animal health and/or nutrition; good husbandry and/or grooming; training and/or showing; or service and/or citizenship.. Posters, photos, displays and journals are not allowed in this category.

11. Junior (ages 8 to 13)

12. Senior (ages 14 & over)

OTHER CONTESTS

Livestock Judging (Division 4326)

Sponsored by Oklahoma Farm Bureau, in cooperation with the Oklahoma State Fair

Thursday, September 13, 2018

- Outside gate admission: To receive complimentary outside gate admission, counties or chapters **must send** request with names of the contestants and instructor, teacher or leader that will be participating, for email receipt no later than September 4 to: Founda Dutton, agclerk@okstatefair.com. You may call Founda Dutton, 405.948.6707, if you have any questions.
- Registration takes place in Barn 3 starting at 9 a.m.
- The entry fee is \$5 per person, or \$20 per team.
- Contest takes place in Barn 8 starting at 10 a.m.
- The contest will consist of judging market beef, sheep, swine and/or breeding classes. Each contestant will answer at least one (1) set of questions in a class - 10 questions each worth 5 points - and no oral reasons will be given.
- Junior Teams consist of members in the 8th, 9th and 10th grades.

- Contestants should bring their social security numbers and pencils.
- **ARRIVAL/PARKING**
 - If you have provided the names of the contestants, etc. as requested above, you will be emailed a temporary Gate 8 passenger vehicle access pass, which will be emailed to you between September 4 – September 7. Print this pass and give to the attendant in the area indicated by the blue circle. This will allow you complimentary parking for arrival between 7 – 10 a.m. on September 13.
 - Enter State Fair Park via Black Gold Drive, off of Portland Avenue on the west side, or via Geronimo Drive off of W. Reno Avenue on the south side of State Fair Park. Do not attempt to enter Gate 7 if you are not also transporting animals; continue north on Geronimo Drive.
 - If you have not provided any names by the deadline noted above or do not have the passenger vehicle access pass, you should be prepared to pay for parking.
 - **If you are arriving with animals/trailers**, obtain the appropriate credentials from the Livestock Show office and park in the Trailer Parking lot south of Gate 7 after unloading. Trailers/animals are not allowed in any other parking lot at State Fair Park.
- **ADMISSION THROUGH GATE 8:**
 - After parking in the Gate 8 parking lot to the north of the barns, walk to Gate 8 where a list will be located containing the names of eligible contestants, teachers, leaders or ag instructors.
 - Complimentary Gate admission through Gate 8 will be allowed if contestants, instructors, teachers and/or leaders are on the list and arrive between the hours of 7:00 a.m. – 10:00 a.m.
 - Complimentary admission or parking for this contest will NOT be available after 10:00 a.m. on September 13, 2018.
- **Awards:**
 - Ribbons will be awarded to the top 10 in each class.
 - The High Individual and High Team Members of each division will be presented a jacket and plaque.
 - Plaques will also be awarded to the second and third place individuals and first thru third place teams.
- **Individual premium scale:**

○ First place: \$10	Second place: \$5	Third place: \$5	Fourth place: \$4
○ Fifth place: \$4	Sixth place: \$3	Seventh place: \$3	Eighth place: \$3
○ Ninth place: \$3	Tenth place: \$3		
- **Team premium scale:**

○ First place: \$25	Second place: \$20	Third place: \$15	Fourth place: \$12
○ Fifth place: \$12	Sixth place: \$10	Seventh place: \$10	Eighth place: \$8
○ Ninth place: \$8	Tenth place: \$8		
- **Classes**
 01. Senior Individuals
 02. Senior Teams
 03. Junior Individuals
 04. Junior Teams



Dairy Judging Contest (Division 4327)*Sponsored by Oklahoma State Fair**Superintendent: Alan Jennings**Monday, September 17, 2018*

- Outside gate admission: To receive complimentary gate admission, counties or chapters **must send** request with names of the contestants and instructor, teacher or leader that will be participating, for email receipt no later than September 4 to: Founda Dutton, agclerk@okstatefair.com. You may call Founda Dutton, 405-948-6707, if you have any questions.
- Registration takes place in Barn 3 at 9 a.m.
- There is no entry fee for this contest.
- Contest takes place in Barn 3 at 10 a.m.
- The contest will consist of judging multiple Dairy Heifer and Cow classes.
- Contestants should bring their own pencils and paper.
- The contest will have NO reasons.
- **ARRIVAL/PARKING**
 - If you have provided the names of the contestants, etc. as requested above, you will be emailed a temporary Gate 8 passenger vehicle access pass, which will be emailed to you between September 4 – September 7. Print this pass and give to the attendant in the area indicated by the blue circle. This will allow you complimentary parking for arrival between 7 – 10 a.m. on September 17.
 - Enter State Fair Park via Black Gold Drive, off of Portland Avenue on the west side, or via Geronimo Drive off of W. Reno Avenue on the south side of State Fair Park. Do not attempt to enter Gate 7 if you are not also transporting animals; continue north on Geronimo Drive.
 - If you have not provided any names by the deadline noted above or do not have the passenger vehicle access pass, you should be prepared to pay for parking.
 - **If you are arriving with animals/trailers**, obtain the appropriate credentials from the Livestock Show office and park in the Trailer Parking lot south of Gate 7 after unloading. Trailers/animals are not allowed in any other parking lot at State Fair Park.
- **ADMISSION THROUGH GATE 8:**
 - After parking in the Gate 8 parking lot to the north of the barns, walk to Gate 8 where a list will be located containing the names of eligible contestants, teachers, leaders or ag instructors.
 - Complimentary Gate admission through Gate 8 will be allowed if contestants, instructors, teachers and/or leaders are on the list and arrive between the hours of 7 – 10 a.m.
 - Complimentary admission or parking for this contest will NOT be available after 10 a.m. on September 17, 2018.
- Awards:
 - Ribbons will be awarded to the top 10 in each class.
 - Student with the Highest Score will be awarded a 2018 Oklahoma State Fair belt buckle.
 - The High Team Members of each division will be presented a plaque.
 - Plaques will also be awarded to the second and third place individuals, and first thru third place teams.
- Classes:
 01. Senior Individuals
 02. Senior Teams
 03. Junior Individuals
 04. Junior Teams



Cupcake Wars (Division 4328)*Saturday, September 22, 2018**Superintendents: Jim Rhodes, Cathleen Taylor and Lynda Latta*

- Entries deadline: August 31, 2018
- For entry information, contact: Jim Rhodes, NW District 4-H Program Specialist, at Jim.rhodes@okstate.edu or 580-233-5295.
- All team members must be bona fide members of 4-H. 4-H members and agents should plan membership registration accordingly. Teams will be assigned a check-in time one (1) week prior to the contest; it will be sent to extension educators and posted on the NW district 4-H website.
- Teams will be made up of two (2) to three (3) members. Limited to the first 30 teams.
- **Rules of Play:**
 - Each team will display three (3) cupcakes.
 - Each team will bring “naked” cupcakes. The cupcakes should have no frosting and be in the paper wrappers only.
 - Each team will bring the frosting mixed in bowls. The frosting should not be tinted prior to contest. Teams will tint and place in frosting bags, if needed, at the contest. Frosting can be either store bought or homemade. If store bought, they can be either white or chocolate frosting.
 - If teams are using fondant, they can use either purchased or homemade. Teams are allowed to purchase tinted/colored fondant to use or may tint fondant off-site.
 - Teams are allowed to use purchased edible decorating items. Only edible items can be used on the cupcakes.
- Teams will report to Oklahoma Expo Hall (OEH) for check in.
- **Classes:**
 - *There will be no move-ups to make teams. Counties are limited to three (3) teams.*
 - Junior division (age 8 & over): Grades 3 - 5
 - Intermediate division: Grades 6 - 8
 - Senior division (age 18 & under): Grades 9 -12

Edible Fruit/Vegetable Sculpting/Arrangements (Division 4329)*Saturday, September 23, 2018**Superintendents: Jim Rhodes, Cathleen Taylor and Lynda Latta*

- Entries deadline: August 31, 2018
- For entry information, contact: Jim Rhodes, NW District 4-H Program Specialist, at Jim.rhodes@okstate.edu or 580-233-5295.
- All team members must be bona fide members of 4-H and enrolled in Oklahoma 4-H. 4-H members and agents should plan membership registration accordingly. Teams will be assigned a check-in time one (1) week prior to the contest; it will be sent to extension educators and posted on the NW district 4-H website.
- Teams will be made up of two (2) to three (3) members. Limited to the first 30 teams.
- **Rules of Play:**
 - Only fruit and vegetables are allowed in the arrangements.
 - Tooth picks or non-edible items can be used to hold arrangements together.
 - Teams will provide their own food for preparation. No electricity will be available. It is required that you bring gloves, trash bags, paper towels, and first aid kits.
- Teams will report to Oklahoma Expo Hall (OEH) for check in.
- **Classes:**
 - *There will be no move-ups to make teams. Counties are limited to three (3) teams.*
 - Junior division (age 8 & over): Grades 3 - 5
 - Intermediate division: Grades 6 - 8
 - Senior division (age 18 & under): Grades 9 -12