

Pennington County 4-H 2020 Premium Book

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Pennington County 4-H is pleased to present its 2020 Premium Book. The Premium Book is a catalog of all project areas and their classes and is a guide for what is available for entry at the Pennington County Fair. It is intended to be comprehensive and reflects decisions previously made at the state and county levels.

For your information, please note the following deadlines and dates related to eligibility:

- 4-H Enrollment deadline: June 1st
- Animal ID deadline (except market beef): June 1st
- Fair Registration opens: May 18th
- Fair Registration closes: June 15th
- Pennington County 4-H Judging: TBD

Please direct all questions, comments, and concerns to the Extension office.

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Questions? Please contact the Pennington County Extension Office:

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4-H RULES

- 1) **Eligibility** – This Department is open to bona fide members of the 4-H clubs of Pennington County.
 - a) Absentee judging of projects: Please visit <http://www.4-H.umn.edu/policies> for information.
 - b) Judging experiences for youth with disabilities or injuries: Contact the Extension Office for more info.
- 2) **Registration** – All entry registration forms are due in the county extension office or on FairEntry by June 15th. Members may enter 2 exhibits in a class, and livestock science exhibits entry is limited to one per lot. If you are showing 2 exhibits in the same class, please put it on the registration form twice.
- 2) **Judging Schedules – TBD for 2020**
- 3) **Cloverbud Policies –**
 - a) The Cloverbud program serves as an introduction to 4-H. It is non-competitive and experience-driven. Premiums and ribbons are awarded to Cloverbuds for their successful participation in the fair.
 - b) Cloverbuds are limited to entry in 5 projects.
 - c) When a Cloverbud shows an animal, an adult or youth leader needs to be in control of the animal at all times. When showing small pets, poultry, rabbits, etc., an adult or youth leader will handle the animal and be in control at all times.
 - d) Cloverbuds must abide by all other rules, guidelines, expectations, and qualification requirements except as noted.
- 4) **Grievance Policy** - A grievance may be filed and a local volunteer grievance committee convened to address rule violations and alleged wrongdoing. A grievance committee will not be convened for the following situations: a) decisions made by judges, which are final; b) missed deadlines which are covered through the "one-time member exemption process;" and, c) code of conduct related violations which will be addressed by staff according to an established process. Please direct any questions to the 4-H Program Coordinator or the Fair Superintendent.
- 5) **Procedure for Checking in Projects** – To be determined for 2020.
- 6) Exhibits will be placed in blue, red, and white ribbon classes except where otherwise stated.
- 7) Please cash all checks by September 21st.

EXHIBIT RULES

- 1) If exhibition requirements are not met (and permission is not granted by 4-H Program Staff), youth will not be eligible for any show related premiums, awards and participation in the state event. Participation in the auction is at the discretion of the Extension staff. Approved early release is an exception to the rule and becomes a 4-H staff and fair board decision based on each situation.
- 2) When choosing a grade division, choose the grade in which you have completed, not the grade you are entering in the fall.
- 3) All work on projects entered should be done by the 4-H member and completed during the current 4-H year unless otherwise noted.
- 4) Note - Cloverbud exhibits, including livestock posters, should not be judged blue, red and white. Instead, all should receive participation recognition.

- 5) **Poster** exhibits may not exceed 22" wide x 28" high. They may be smaller. Please be aware that foam poster board is 20" x 30". It needs to be trimmed. It is highly recommended that posters come prepared to be hung (otherwise staples will be used to hang them).
- 6) **Education/Science Tri-Fold Exhibits** for all project areas may not exceed 12" deep x 24" wide x 36" high. (Center back 24" wide x 36" high, right and left wings each 12" wide x 36" high.)
- 7) All exhibits will be evaluated by a conference with the judge. Project judging criteria:

Exhibit quality	25%
Educational value	25%
Knowledge and ability to explain	50%

 Decision of the judge is final and may not be appealed.
- 8) **Floor Space** for any exhibit should not exceed 20 square feet. If your exhibit exceeds this space limitation, contact the Extension office.
- 9) **All exhibits must be labeled** with name, club and county. Other appropriate information for the project (i.e., vegetable varieties) should be included. If the exhibit has multiple pieces, each part needs to be labeled and should indicate 1 of 4, 2 of 4, etc.
- 10) Meeting exhibition requirements of the local County Fair Board/Agricultural Association and the 4-H Youth Development Program from 4-H exhibit entry day through release time: If exhibition requirements are not met (and permission is not granted by the 4-H and the county fair), youth will not be eligible for all show related premiums, awards, and participation in the state event. Approved early release is an exception to the rule and will be decided on a case-by-case basis.
- 10) **Copyright Law and Infringement:**
 - a) Copyright is a form of protection given to authors and creators of original work. Original work includes a person's ideas captured in writing or as an image, photograph, song, audio recording or visual recording.
 - b) All original work – including information found on the web – is subject to copyright protection. The author/creator has exclusive rights to reproduce, distribute, display, perform or make derivative works.
 - c) Before using another person's work as a part of your 4-H exhibit, be sure that the work is subject to fair use, has a creative commons license or that you have requested and received permission (in writing) to use the original work. If an exhibit infringes on copyright law, a decision may need to be made to remove the exhibit from display at the county or state fair.

ANIMAL SCIENCE RULES

- 1) **All beef, dairy, dog, goat, horse, llama, rabbit, sheep and swine** shown in 4-H livestock shows must have the required State 4-H ID system, ear tag and/or tattoo. **Animals ID data must be submitted online, arrive in the Extension office, or be postmarked no later than June 1 (with the exception of Market Beef due Feb. 18 in 2020).**
- 2) All animals exhibited must be owned solely by the member, member's family or leased by agreement. The family includes the 4-H'er's parents or guardians and siblings living together as a

family unit. The definition of family includes an extended family where the animals may be owned by grandparents with the 4-H'er's parents actively involved with and working on the farm. **Animals owned in partnership with non-family members (as defined above) must be leased and follow guidelines within the lease agreement.**

3) Registered animals, not leased, must be registered in the exhibitor's name and/or the exhibitor's family name.

4) 4-H'ers exhibiting livestock at the County Fair **are responsible** for the care and feeding of animals they exhibit.

5) Cloverbud exhibits, including livestock posters, should not be judged blue, red and white. Instead, all should receive participation recognition.

6) All livestock exhibits, including showmanship, must be pre-registered. Members in animal projects may exhibit one animal per class, unless stated otherwise.

7) All 4-H'ers exhibiting livestock at the fair are eligible to participate in showmanship. 4-H'ers must show their own animals. During showmanship, the exhibitor may only show one animal and it must be an animal in which the exhibitor has already exhibited with. **Please sign up for showmanship on your fair registration.**

8) State Grooming & Fitting Rules: All grooming of livestock at the fair, including clipping, trimming and manipulation of the hair/wool (such as blocking on sheep, pulling up hair on beef and working up top lines on dairy) must be clearly done by the exhibitor, members of the immediate family (parents, step-parents, legal guardians, grandparents, brothers or sisters) or any other **enrolled** Minnesota 4-H member. The 4-H'er exhibiting the animal should be present and involved in the fitting process at the fair.

9) To show in the registered breed classes, animals must meet the registration requirements for that breed and registration papers must be available. Animals without proper registration papers (crossbreeds and grades) must be shown as commercial.

10) For exhibitors with two animals showing in the same class, one animal must be shown by the and the other must shown by an **enrolled** Minnesota 4-H member. The exception to this rule is for state fair line-up in which an immediate family member may enter the show ring with an animal.

11) All animal health regulations will be in effect as stipulated by the Minnesota Board of Animal Health and the County Agricultural Society.

LIVESTOCK HEALTH REQUIREMENTS

ALL LIVESTOCK

Warts, ringworm, contagious diseases – all animals must be free of warts, ringworm, or other contagious diseases to be entered in a show. If they arrive at the show with these diseases, they will be sent home.

Full animal ID information and health requirements can be found online at <https://extension.umn.edu/projects-and-more/4-h-animal-id>

SHEEP

All breeding ewes and market ewes must have a USDA scrapie tag. Contact the Minnesota Board of Health at 651-296-2942 ext. 30 to get a tag. All sheep need a Premise number. Contact the Minnesota Board of Animal Health at 651-201-6816 or www.bah.state.mn.us/bah/nais/. All commercial/crossbred breeding ewes need a 4-H ear tag. Registered ewes must have 4-H tag, tattoo, or individual ID tag that matches registration papers.

HORSES

A Coggins test for Equine Infectious Anemia is required.

RABBITS AND WATERFOWL

No specific health certificates are required.

POULTRY

PULLORUM-TYPHOID – An official form to show a record of a negative test for pullorum-typhoid disease conducted within 90 days or a Statement of Origin to show they originate directly from parent stock tested and found negative within 12 months.

SWINE

PSEUDORABIES – All swine must:

- A. Need a premise number. Contact the MN Board of Animal Health at 651-201-6816 or www.bah.state.mn.us/bah/nais/.

DOGS

Dogs must have DHLPP and rabies vaccination form issued by a licensed veterinarian.

GOAT

All breeding goats and market goats must have a USDA scrapie tag. Contact the Minnesota Board of Health at 651-296-2942 ext. 30 to get a tag. All market goats need a 4-H ear tag.

STATE FAIR OR STATE SHOW ELIGIBILITY

1) Trips for State Fair, State Horse Show and State Dog Show will be selected from blue ribbon exhibits only (see State Dog Show Rules for exceptions). Exhibit classes eligible for State Fair are marked with an asterisk *.

2) Members selected to represent the county at State Fair and State Horse Show **must have completed sixth grade.**

3) To be eligible for a livestock trip to the State Fair, 4-H'ers must have completed Quality Assurance Training.

State Policy: All youth participating as a State Fair 4-H livestock exhibitor in beef, dairy, sheep, swine, poultry, rabbits, meat goat, dairy goat, and llama must have completed a livestock quality assurance training in which there are two training options 1) a 3 hour in-person workshop (LQA&E), or 2) a 1 hour on-line training (YQCA). Youth completing either quality assurance training option will receive a certificate of completion.

4) Along with their qualifying state fair exhibit trip(s), 4-H members may participate in activities such as Share-the-Fun, demonstrations, Arts-In, cooking events, animal science educational exhibits or judging teams.

5) The 4-H'er is responsible for providing transportation to and from the State Fair if their exhibit is oversized.

6) Competitive events, deadlines, consequences and exemption options: Every Minnesota 4-H member is eligible for a "one-time" member exemption. This exemption provides the ability (one-time in a 4-H member's career) for the 4-H member to acknowledge they missed a 4-H deadline related to enrollment or competitive event participation and waive the consequences for the named deadline.

7) Distribution of Unused Livestock Trips: Minnesota 4-H wants to provide as many 4-H members as possible the opportunity to experience the Minnesota State Fair judging process. To ensure that as many youth as possible have the opportunity to participate in a livestock experience at the Minnesota State Fair, staff and volunteers are asked to follow the outlined process for the distribution of unused livestock quota trips.

- Club name on 3 x 5 card pinned to back. (Any assembly technique can be used.)
- When registering, please register under the club name.

✿ **COMMUNITY PRIDE - CLUB**

Club Activity - Community Pride

Note: One exhibit will be selected for State Fair.

Requirements:

- The exhibit may include a three-sided display, video, or other visual method which visually highlights the entire project or certain parts in a manner which tells the public what positive effects the project had on the community.
- Two club youth who participated in the project may represent the club in conference judging.
- When registering, please register under the club name.
- Community Pride exhibits should include events from the current 4-H year only (beginning October 1, 2019)

Please note: Community Pride participants at State Fair may exhibit another individual project.

Suggestions:

- An example of a Community Pride Summary Form is available from the Extension Office. You may use all or parts of this form. It is not mandatory.

✿ **CLUB SCRAPBOOK**

Club Activity - Scrapbook (not eligible for State Fair trip)

Requirements:

- The scrapbook should depict club activities and participation in community and county events.
- The book should include events from the **previous** 4-H year only (from October 1, 2018 to September 30, 2019).
- When registering, please register under the club name.

PREMIUM SCHEDULE

Please use the following table to determine the premiums awarded for exhibit ribbon placements

Project Area	Blue	Red	White
Club Banner/Community Pride	15.00	12.00	10.00
Club Scrapbook	10.00	8.00	6.00
Demonstrations	4.00	2.50	1.00
Cat, Pet, Dog w/ animal	4.00	2.50	1.00
General Exhibits	3.00	2.00	1.00
Beef, Dairy, Horse	10.00	7.00	5.00
Beef Cow/Calf, Dairy Herd	12.00	10.00	8.00
Sheep, Swine, Goats	7.00	5.00	3.00
Advanced Swine	10.00	7.00	5.00
Poultry, Rabbits, Llama	4.00	2.50	1.00
Dog	4.00	3.00	1.00
Fashion Review	3.00		
Showmanship	5.00		
Cloverbud / Participation*	1.00		

* Cloverbuds will receive a special ribbon and premium for successful completion of and display of their projects. Standard ribbon colors do not apply to Cloverbud exhibits.

CLUB ACTIVITIES

✿ **CLUB BANNER**

Club Activity - Banner

Note: Two banners will be selected for State Fair exhibit.

Requirements:

- Banner must be 3' x 5' and designed to hang vertically.
- It must be completed and equipped with a dowel (minimum size 3' 8") and ready to hang.
- Banner must be of fabric (no paper) and can be one or two-sided.

PUBLIC PRESENTATIONS

✿ **DEMONSTRATIONS**

- Demonstration - Grade 9+ Individual
- Demonstration - Grade 9+ Team
- Demonstration - Grade 6-8 Individual
- Demonstration - Grade 6-8 Team
- Demonstration - Grade 3-5 Individual
- Demonstration - Grade 3-5 Team
- Demonstration - Cloverbud Individual
- Demonstration - Cloverbud Team

✿ **LIVESTOCK DEMONSTRATIONS**

- Livestock Demonstration - 9+ Individual
- Livestock Demonstration - 9+ Team
- Livestock Demonstration - Grade 6-8 Individual

- Livestock Demonstration - Grade 6-8 Team
- Livestock Demonstration - Grade 3-5 Individual
- Livestock Demonstration - Grade 3-5 Team

✿ ILLUSTRATED PRESENTATIONS

- Illustrated Presentation - Grade 9+ Individual
- Illustrated Presentation - Grade 9+ Team
- Illustrated Presentation - Grade 6-8 Individual
- Illustrated Presentation - Grade 6-8 Team
- Illustrated Presentation - Grade 3-5 Individual
- Illustrated Presentation - Grade 3-5 Team

✿ YOUTH IN ACTION DEMONSTRATIONS

- Youth In Action Demonstration - Grades 9+ Individual
- Youth in Action Demonstration - Grades 9+ Team
- Youth in Action Demonstration - Grades 6-8 Individual
- Youth in Action Demonstration - Grades 6-8 Team
- Youth in Action Demonstration - Grades 3-5 Individual
- Youth in Action Demonstration - Grades 3-5 Team

Requirements:

- **Demonstration / Illustrated Presentations** may be related to any project that the member is enrolled in **or to any area of interest or expertise the 4-H'er has**. Presentations may be an individual or a two-person team. Individual presentations shall not exceed 15 minutes in length and team presentations should not exceed 25 minutes in length.
- **Demonstrations** are an oral presentation that includes actually demonstrating the hands-on steps required to accomplish a task or process. This most often includes the use of physical objects and actual doing or showing. For example, a demonstration could involve using bedding plants, potting soil and related items to demonstrate how to plant a flower pot. At the end of the Demonstration there should be something of a "finished product". Demonstrations may also include the use of supporting visuals like posters, charts or overhead transparencies. Supporting visuals can include technology-based options like presentation software (i.e. MS PowerPoint). However, the focus of the Demonstration should be on the "doing", not the supporting visuals.
- **Illustrated Presentations** are an oral presentation that presents an idea, concept, viewpoint or experience in an educational or informative format. For example, an Illustrated Presentation could be a report on leadership lessons learned through a trip to Washington DC or an educational presentation that explores sustainable energy options. Illustrated Presentations most often consist of interaction with supporting visuals like posters, charts or overhead transparencies. Supporting visuals can include technology-based options like presentation software (i.e. MS PowerPoint). Supporting visuals may include tangible items, but generally little or no activity takes place with the item.
- **Youth in Action** presentations are interactive, continuous presentations that are approximately 25 – 30 minutes in length. Topics selected for a Youth in Action demonstration may be related to a project in which the member is enrolled or to any other

area of interest or expertise the member has. Involving the audience in the process is the primary focus of Youth in Action and constitutes a major portion of the evaluation results.

- Presentation Software (i.e. MS PowerPoint) may be used for both Demonstrations and Illustrated Talks. If Presentation Software is used in a Demonstration, the presentation software should supplement the Demonstration (hands on demonstrating should still be the basis of the entry). If used for an Illustrated Talk, the presentation software can be the basis for the entire talk; however, the member must interact with the presentation and information - not just step to the side and let the presentation play. (Self-presenting entries created with presentation software should be burned on to a DVD and entered in the "Video" class.)

Special NOTE: If presentation software is utilized in either a Demonstration or an Illustrated Talk, the 4-H'er is responsible for securing any equipment necessary for judging. Extension staff may be able to assist in this process, but it is the responsibility of the exhibitor to contact Extension staff WELL BEFORE the scheduled judging.

NOTE: 4-H'ers who complete a Public Presentation at the State Fair will receive a \$30 cash award. These payments are made in October. 4-H'ers must be grade eligible to participate at the State Fair.

ANIMAL SCIENCE

Animal science projects are focused on the care, well-being, and maintenance of livestock and live animals, and most of these projects involve the exhibition of a live animal. More information is available online at <https://extension.umn.edu/projects-and-more/4-h-animal-science-projects> The following are the projects and classes available in the area of Animal Science:

✿ BEEF

<u>Birth Dates</u>	
Spring Calf	Jan 1 – Apr 30, 2020
Fall Calf	Sept. 1-Dec. 31, 2019
Summer yearling	May 1-Aug. 31, 2019
Junior yearling	Jan. 1-April 30, 2019
Senior yearling	Sept. 1-Dec. 31, 2018
Cow/Calf	Calf born on or after January 1, 2020
Prospect Calf	Jan 1 – Apr 30, 2020
Market Beef/Market Heifer	January 1 – August 31, 2019
Dairy Steer	January 1 – August 31, 2019

BREEDING HEIFER (combined registered & commercial)

Use the following classes and birth dates above to indicate the age of your project animal(s):

- Beef - Spring Calf**
- Beef - Fall Calf**

- Beef - Summer Yearling
- Beef - Junior Yearling
- Beef - Senior Yearling

MARKET BEEF

- Beef - Market Steer
- Beef - Market Heifer

Requirements:

- Recommended minimum weight for State Fair is 1,000 pounds; recommended maximum weight is 1,500 pounds.

DAIRY STEER

Dairy Steer (crossbred or purebred)

Requirements:

- Recommended minimum weight for State Fair is 1,000 pounds; recommended maximum weight is 1,600 pounds. Pure Breed Dairy Steers must be 100% dairy breed. These breeds will be accepted without registration papers Ayrshire, Brown Swiss, Guernsey, Holstein, and Jersey. Milking Shorthorn dairy steers must be registered with American Milking Shorthorn Society and not carry the "S" suffix.
- Dairy Steers showing permanent teeth may be shown, but they can place no higher than a red ribbon and they will not be eligible for State Fair or auction.
- Crossbred Dairy Steers must be at least 50% from the acceptable breeds listed for the Pure Breed Dairy Steer division, with the balance being from any other beef or dairy breed; however, the steers must show adequate dairy steer characteristics, as determined by the screening committee. Exhibitors should be prepared to identify the breeds of their crossbred dairy steer.

COW AND CALF

Beef - Cow and Calf Pair

PROSPECT CALF

- Beef – Prospect Heifer Calf
- Beef – Prospect Steer Calf

Requirements:

- Feeder calf can be weaned or sucking and must be castrated. Bull calves are not eligible.

CLOVERBUD BEEF

- Cloverbud Beef
- Cloverbud Beef Poster

BEEF SHOWMANSHIP

- Jr. Beef Showmanship - Grades 8 & below
- Sr. Beef Showmanship - Grades 9 & above

BEEF POSTER

- Beef Poster – see Science of Animals Exhibit

DAIRY

Birth Dates:	
Winter calf	Dec 1, 2019 to Feb 29, 2020
Fall calf	Sept 1 to Nov 30, 2019
Summer Junior Yearling	June 1 to August 31, 2019
Spring Junior Yearling	March 1 to May 31, 2019
Winter Senior Yearling	Dec 1, 2018 to Feb 28, 2019
Fall Senior Yearling	Sept 1 to Nov 30, 2018
Junior 2-year-old	March 1 to Aug 31, 2018
Senior 2-year-old	Sept 1, 2017 to Feb 28, 2018
Three-year-old cows	Sept 1, 2016 to Aug 31, 2017
Four-year-old cows	Sept 1, 2015 to Aug 31, 2016
Cow, five years & older	Born before Sept 1, 2015

All Breeds – Registered and Grade

Use the following classes and birth dates above to indicate the age of your project animal(s):

Dairy – Calf (Fall & Winter Calves)

Dairy – Junior Yearlings (Summer & Spring Yearlings)

Dairy – Senior Yearlings (Winter & Fall Yearlings)

Dairy – Two-Year-Olds (Jr. & Sr.)

Dairy – Cow – three years & older (may show as many aged cows as you want but no 2 cows the same age)

Dairy – Dry Cow

Requirements:

- You may show one of each age category animal. Put the animal in the same class but list them separately on the registration form. For example: Fall calf, Winter calf. Exhibition rules apply when showing multiple animals in the same class.

DAIRY PRODUCTION

Dairy Production

Requirements:

- Exhibitors may enter any two-year-old or older animal currently enrolled in central processed DHIA record at the time of the fair. Add information to the animal entry. The ribbon awards will be based on the value of product in the last completed lactation based on 305 days M.E. Only official verified central processed DHIA record will be considered for this recognition. The value of the milk produced will determine the ribbon placing, not the milk yield.

NOTE: No state fair trip available in Dairy Production.

DAIRY HERD

Dairy Herd

Requirements:

- 1 cow with 450lb fat record and 2 other animals, calf or yearling, from cows owned by exhibitor. All 3 must be shown in 4-H classes by one exhibitor.

NOTE: No state fair trip available in Dairy Herd.

CLOVERBUD DAIRY

Cloverbud Dairy
Cloverbud Dairy Poster

DAIRY SHOWMANSHIP

Jr. Dairy Showmanship – Grades 8 & below
Sr. Dairy Showmanship – Grades 9 & above

DAIRY POSTER

Dairy Poster – see Science of Animals Exhibits

DOG

DOG AGILITY

Dog - Agility Beginner
Dog - Agility Elementary
Dog - Agility Intermediate
Dog - Agility Senior

Dogs participating in agility must take classes on agility and follow rules in the MN Show Guide – Agility and must be accompanied by a release form signed prior to the county fair. Details on Agility can be found using the Dog Agility Rules & Guidelines book found at z.umn.edu/mn4hdogproject

DOG RALLY

Dog - Rally Foundation
Dog - Rally Pre-Novice
Dog - Rally Novice
Dog - Rally Pre-Advanced
Dog - Rally Advanced
Dog - Rally Excellent
Dog - Rally Veterans

DOG OBEDIENCE

Dog - Obedience Foundation Class
Dog - Obedience Beginner
Dog - Obedience Graduate Beginner
Dog - Obedience Novice
Dog - Obedience Graduate Novice
Dog - Obedience Pre-Open
Dog - Obedience Open
Dog - Obedience Graduate Open
Dog - Obedience Pre-Utility
Dog - Obedience Utility
Dog - Obedience Veteran
Dog - Obedience Brace (Beginner score card will be used in judging)
Dog - Obedience 4 Dog Team (Graduate Beginner score card will be used in judging)

CLOVERBUD DOG

Cloverbud Dog
Cloverbud Dog Poster

DOG SHOWMANSHIP

Jr. Novice – Grades 3-8
Jr. Open – 4-H'ers that have achieved a blue ribbon in Jr. Novice must move to this class
Sr. Novice – Grades 9 & above
Sr. Open – 4-H'ers that have achieved a blue ribbon in Sr. Novice must move to this class

Requirements:

- A dog may be shown in the dog show or the pet show, not both!
- 4-H'ers - 3rd grade and up are eligible for county and state dog show.
- 4-H'ers shall exhibit in the classes corresponding to the level of training they and their dog have received. Additional information, class requirements, and rules/regulations can be found in the Minnesota 4-H Agility, Obedience, Rally and Showmanship rules and guidelines (four separate publications) available on the MN 4-H dog project website (z.umn.edu/mn4hdogproject).
- All dogs must be vaccinated according to the requirements listed on the MN 4-H Dog Project ID Affidavit and Vaccination Form.

GOAT

DAIRY GOAT

Birth Dates:	
Junior Doe Kid	April 1 to June 30, 2020
Jr. Buck (no state trip)	Under 6 mo. of age at the fair
Senior Doe Kid	Jan. 1 to March 31, 2020
Dry Yearling Doe	January 1 – December 31 st , 2019
Milking Yearling Doe	January 1 – December 31 st , 2019
Milking two-year old Doe	January 1 – December 31 st , 2018
Milking three-year old Doe	Born in 2017
Milking four-year old Doe	Born in 2016
Milking five-year-old+ Doe	Born in 2015 or before

The following breeds are eligible: Alpine, Lamancha, Nubian, Oberhasli, Saanen, Toggenburg, Recorded Grades, Nigerian Dwarfs, Sables, Unrecorded Grades and Golden Guernsey.

Note: For safety reasons, all dairy goats must be disbudded/ dehorned. Regrowth of less than 1 inch is allowed

Use the following classes and birth dates above to indicate the age of your project animal(s):

Dairy Goat - Jr. Doe Kid
Dairy Goat - Sr. Doe Kid
Dairy Goat - Dry Yearling Doe

Dairy Goat - Milking Yearling Doe
 Dairy Goat - Milking 2 Year Old Doe
 Dairy Goat - Milking 3 - 4 Year Old Doe
 Dairy Goat - Milking 5 Years and Older Doe
 Dairy Goat – Jr. Buck (no state trip)

DAIRY GOAT PRODUCTION

Dairy Goat Production

- Exhibitors may enter any two-year-old or older animal currently enrolled in central processed DHIA record at the time of the fair. Bring last completed DHIA record to be considered for this recognition.

NOTE: No state fair trip available in Dairy Goat Production.

DAIRY GOAT SHOWMANSHIP

Jr. Dairy Goat Showmanship – Grades 8 & below
 Sr. Dairy Goat Showmanship - Grades 9 & above

DAIRY GOAT CLOVERBUD

Cloverbud Dairy Goat
 Dairy Goat Cloverbud Poster

DAIRY GOAT POSTER

Dairy Goat Poster – see Science of Animals Exhibits

GOAT MEAT

Birth Dates:	
Meat Market Goat (wether or doe)	December 1, 2019 – April 30, 2020
Dairy market goat (wether)	December 1, 2019 – April 30, 2020
Sr. Yrlg. Meat Breeding Doe (never kidded)	December 1, 2018 – February 28, 2019
Jr. Yrlg. Meat Breeding Doe (never kidded)	March 1, 2019 – May 31, 2019
Fall Yrlg. Meat Breeding Doe (never kidded)	June 1, 2019 – Nov. 30, 2019
Sr. Meat Breeding Doe Kid	Dec 1, 2019 – Feb. 29, 2020
Jr. Meat Breeding Doe Kid	Mar 1, 2020 – May 31, 2020

Note: Pygmy Goats (all breeds) are classed as Meat Goats

MARKET GOAT

Meat Market Goat –wether
 Meat Market Goat – doe
 Dairy Market Goat – wether

MEAT GOAT BREEDING DOE

Meat Goat - Sr Yrlg. Breeding Doe, reg. or grade (never kidded)
 Meat Goat – Jr. Yrlg. Breeding Doe, reg. or grade (never kidded)
 Meat Goat – Fall Yrlg. Breeding Doe, reg. or grade (never kidded)
 Meat Goat – Sr. Meat Breeding Doe Kid

Meat Goat – Jr. Meat Breeding Doe Kid

Requirements:

- Market animals must be a minimum of 40 pounds, but not to exceed a maximum of 110 pounds by State Fair.

Note: For safety reasons, all market goats must be de-horned/disbudded. Re-growth must not exceed 1 inch. Does shown in market classes must be disbudded in accordance with market animal rules. Cut (saws) off horns are not permitted. Meat breeding does may have horns and they do not need to be capped or blunted. However, if an animal is deemed a safety concern at the discretion of the committee, additional safety measures may be required.

MEAT GOAT CLOVERBUD

Cloverbud Meat Goat
 Meat Goat Cloverbud Poster

MEAT GOAT SHOWMANSHIP

Jr. Meat Goat Showmanship - Grades 8 & below
 Sr. Meat Goat Showmanship - Grades 9 & above

MEAT GOAT POSTER

Meat Goat Poster – see Science of Animals Exhibits

HORSE

HORSE SHOW

Horse – Showmanship at Halter, grades 6+
 Horse – Showmanship at Halter, grades 3-5
 Horse – English Equitation, Hunt/Saddle Seat, grades 6+
 Horse – English Equitation, Hunt/Saddle Seat, grades 3-5
 Horse – English Pleasure, grades 6+
 Horse – English Pleasure, grades 3-5
 Horse – Western Horsemanship, grades 6+
 Horse – Western Horsemanship, grades 3-5
 Horse – Western Pleasure, grades 6+
 Horse – Western Pleasure, grades 3-5
 Horse – Trail Class, grades 6+
 Horse – Trail Class, grades 3-5
 Horse – Pole Weaving, grades 6+
 Horse – Pole Weaving, grades 3-5
 Horse – Jumping Figure 8, grades 6+
 Horse – Jumping Figure 8, grades 3-5
 Horse – Key Race, grades 6+
 Horse – Key Race, grades 3-5
 Horse – Barrel Race, grades 6+
 Horse – Barrel Race, grades 3-5
 Horse – Driving Horse, grades 6+
 Horse – Driving Horse, grades 3-5
 Horse – Driving Team

Requirements:

- **Horse Helmet Policy:** All 4-Hers participating in any 4-H sponsored mounted activity are required to wear properly fastened ASTM/SEI approved protective headgear. Helmet use is required when mounted. This policy also extends to 4-H volunteers when they are working with 4-H youth in a 4-H volunteer role during mounted activities.
- Classes may be combined or split depending on number of entries.
- A horse may be used only once in any event per show. Age, grade, or type of divisions are considered class divisions and not separate events. The horse may be used in an additional non-qualifying class in the same event. For example:
 - a) If a member shows in Western Pleasure, another member may not also use the same horse for Western Pleasure. The second member may use the horse in other events, such as Western Horsemanship or English Pleasure.
 - b) If a member shows a horse in Barrels, another member may not also use the same horse for a barrel class. The second member may use the horse for other game events, such as Key Race.
 - c) If a member shows in English Pleasure, another member that is too young to qualify for the state show may also show in English Pleasure.
- If riding 2 horses, points are counted toward either games or performance classes. Points are not combined for the rider.
- Each horse is allowed 1 premium but will receive ribbons in all classes
- Additional information can be found on the Horse project page (z.umn.edu/4HHorseProject).

Please note: classes for points cannot be changed from the time you submit your fair registration. Please sign up for anything you might be participating in. You may drop a class during the show, but you may not add.

Ribbons: In Performance and Games, ribbons will be awarded by the judge according to the quality of the performance.

State Horse Show Rules:

1. Only senior 4-H'ers (6th grade and above) are eligible.
2. Points are counted on one horse per Senior 4-H'er
3. Points are counted on blue ribbons only.
4. If a 4-H'er qualifies for 2 state horse show trips, they will choose the 1 trip they want. The next in line of the one they did not choose will be offered the trip.
5. If there is an ineligible rider who places, that rider's points will go unassigned. Reasons for ineligibility include late ID of animal without exemption, late enrollment, etc. For an example of this rule:

Example County Points

Barrels Results	Western Pleasure Results
Sasha – 1 st blue	Jane – 1 st blue
Jane – 2 nd blue	Bart – 2 nd blue
Bart – 3 rd blue	Sasha – 3 rd blue
Oliver – 4 th blue	Oliver – 4 th blue

NAME	BARRELS	WESTERN P.	TOTAL
Sasha	6	4	10

Oliver	3	3	6
Bart (incl.)	XX	XX	XX
Jane	5	6	11

Selection of State Trip Winners

Pennington County 4-H Horse enrollment will be finalized June 1st. The State 4-H Horse Show trips will be selected as follows:

- Even Distribution between Pleasure and Games. If the county receives an odd number of quota trips, then the extra trip will be awarded to the discipline with the most participation.

Points will be awarded as follows: 1st place – 6; 2nd – 5; 3rd – 4; 4th – 3; 5th – 2; 6th – 1

Tie Breakers:

1. Person with the most 1st places
- Exhibits are conference judged with the exhibitor present.
2. Person with the most 2nd places
3. Person with the most 3rd places
4. Draw out of a hat

CLOVERBUD HORSE

- Cloverbud Horse - Western Pleasure**
- Cloverbud Horse - Showmanship**
- Cloverbud Horse – Barrels**
- Cloverbud Horse – Poster**

Requirements:

- Cloverbud Policy: An adult **must be in control** of the horse at all times. Failure to adhere to the policy may result in disqualification from the show.
- Cloverbuds **must** follow the helmet rule.
- Cloverbuds are not required to ID their horse and can show a horse already participating in the county show.
- Cloverbuds can compete in any or all of the above Cloverbud Horse classes. "Cloverbud Horse" counts as 1 project toward their limit of 5 regardless of how many horse classes they do.

HORSE TRAINING

Horse Training – Steps 1 - 6

HORSE ACHIEVEMENT

Horse Achievement

HORSE RELATED

Premium: Blue - \$3; Red - \$2; White - \$1

- Horse - Horse Related, Grades 6+**
- Horse - Horse Related, Grades 3-5**

Requirements:

- Must be enrolled in the Horse project to exhibit in this division.
- Exhibits may be a model, poster, scrapbook, essay, and/or article. The exhibit should show or explain something the 4-H member has made, done, or learned in the project.
- Exhibits are conference judged with the exhibitor present.

HORSELESS HORSE

Premium: Blue - \$3; Red - \$2; White - \$1

Horse - Horseless Horse, Grades 6+

Horse – Horseless Horse, Grades 3-5

Requirements:

- Exhibits may be a model, poster, scrapbook, essay, and/or article. The exhibit should show or explain something the 4-H member has made, done, or learned in the project.
- Exhibits are conference judged with the exhibitor present.

LLAMA

Llama – Showmanship

Llama – Obstacle Course

Llama – Poster

Note: Alpacas may also be exhibited at the county fair in these classes.

Birthdates

4-H Llama Projects must be born prior to January 1, 2020.

Requirements:

- No sexually intact male above 18 months is eligible for exhibition.
- All castrated males prior to January 1, 2020 are eligible for exhibition
- All females born prior to January 1, 2020 are eligible for exhibition.

LLAMA POSTER

Llama Poster - Educational or promotional poster may be selected to advance to the state fair. See state fair poster requirements under llama information sheet.

CLOVERBUD LLAMA

Cloverbud Llama Showmanship

Cloverbud Llama Poster

POULTRY**CHICKENS**

Chickens - Market pen of two males or two females, must be hybrid

Chickens - Breeding pen of one male & two females, must be purebred

Chickens - Bantam Breeding pen of one male & two females, must be purebred

Chickens - Egg production pen of two pullets, white egg layers, hybrid recommended

Chickens - Egg production pen of two pullets, brown egg layers, must be commercial purebred or hybrid (hybrid preferred)

Note: For breeds with colored eggs, check the color of the ear lobes: white or pale mean a white layer; red or dark mean brown layers.

Breeding pens are ineligible for Premium Only Livestock Market Auction.

DOVES

Doves - Purebred breeding pair

DUCKS

Ducks - Market pen of two males or two females

Ducks - Breeding pen of one male & two females

Ducks - Bantam Breeding pen of one male & two females

GEESE

Geese - Market pen of two males or two females

Geese - Breeding pen of one male & two females

GUINEA

Use the following Classes, with the Divisions to indicate the type of your project animal(s). Note: ONLY Pearls, Whites and Lavender breeds can be shown:

Guinea - Market pen of two males or two females - same breed

Guinea - Breeding pen of one male & two females - same breed

PIGEONS

Pigeons - Utility

Pigeons - Fancy

Pigeons - Flying

Note: A pair consists of 1 male and 1 female of the same breed at least 1 year old.

TURKEYS - Domestic only

Turkeys - Domestic Only - Market pen of two males or two females

Turkeys - Domestic Only - Breeding pen of one male & two females

POULTRY INTERVIEW

Jr. Poultry Interviews - Grades 8 & below

Sr. Poultry Interviews - Grades 9 & above

Requirements:

- Exhibitors at the Junior level will be asked a minimum of 4 questions relating to their selected animal, their involvement in the project area, and their knowledge in the project area. Exhibitors at the Senior level will be asked a minimum of 5 questions on the same topics.
- Exhibitors will be judged based on the content of their answers and on their ability to effectively communicate their answers. It is strongly suggested that exhibitors practice interviews. Sample judging forms are available at this address: <https://extension.umn.edu/projects-and-more/4-h-poultry-project>

POULTRY POSTER

Poultry Poster - Educational or promotional poster may be selected to advance to the state fair. See state fair poster requirements under poultry information sheet.

POULTRY SHOWMANSHIP

Jr. Poultry Showmanship - Grades 8 & below
Sr. Poultry Showmanship - Grades 9 & above

CLOVERBUD POULTRY

Cloverbud Poultry
Cloverbud Poultry Poster

OTHER POULTRY

Show & Hobby (other fowl) – Pen of 1 male & 1 female or 2 females

Note: Birds must have hatched before January 1st. Not eligible for a state fair trip.

Poultry Project Requirements:

- Poultry exhibited must be of this year's hatch (except advanced classes). All, except waterfowl and pigeons, must have health certificate.
- Breeding classes will be judged on breed characteristics using the American Standard of Perfection as a guide.

RABBITS

SMALL BREEDS

Rabbit - Small Breed – Purebred Senior Buck over 6 months of age
Rabbit - Small Breed – Purebred Senior Doe over 6 months of age
Rabbit - Small Breed – Purebred Junior Buck under 6 months of age
Rabbit - Small Breed – Purebred Junior Doe under 6 months of age
Rabbit – Small Breed – Non-purebred Senior Buck over 6 months of age
Rabbit – Small Breed – Non-purebred Senior Doe over 6 months of age
Rabbit – Small Breed – Non-purebred Junior Buck under 6 months of age
Rabbit – Small Breed – Non-purebred Junior Doe under 6 months of age

Note: Does, bucks and fryer or meat pen rabbits must be purebred to compete at State Fair trips.

4 Class (small) rabbit breeds include Dutch, Florida White, Holland Lop, Jersey Woolly, Mini Lop, Mini Rex, Netherland Dwarf, Polish, Rex, American Fuzzy Lop, American Sable, Dwarf Hotot, English Angora, French Angora, Satin Angora, Belgian Hare, Britannia Petite, Standard Chinchilla, English Spot, Harlequin, Havana, Himalayan, Lilac, Lion Head, Rhinelander, Silver, Silver Marten, Thrianta and Tan.

LARGE BREEDS

Rabbit - Large Breed – Purebred Senior Buck over 8 months of age

Rabbit - Large Breed – Purebred Senior Doe over 8 months of age

Rabbit - Large Breed – Purebred Intermediate Buck 6 - 8 months of age

Rabbit - Large Breed – Purebred Intermediate Doe 6 - 8 months of age

Rabbit - Large Breed – Purebred Junior Buck under 6 months of age

Rabbit - Large Breed – Purebred Junior Doe under 6 months of age

Rabbit - Large Breed – Non-purebred Senior Buck over 8 months of age

Rabbit - Large Breed – Non-purebred Senior Doe over 8 months of age

Rabbit - Large Breed – Non-purebred Intermediate Buck 6 - 8 months of age

Rabbit - Large Breed – Non-purebred Intermediate Doe 6 - 8 months of age

Rabbit - Large Breed – Non-purebred Junior Buck under 6 months of age

Rabbit - Large Breed – Non-purebred Junior Doe under 6 months of age

Note: Does, bucks and fryer or meat pen rabbits must be purebred to compete at State Fair trips.

6 Class (large) rabbit breeds include New Zealand, Satin, American Giant Angora, Belgian Hare, Bevern, Californian, Champagne Dargent, Checkered Giant, American Chinchilla, Giant Chinchilla, Cinnamon, Crème Dargent, Flemish Giant, French Lop, Hotot, English Lop, Palomino and Silver Fox.

Requirements:

- All breeds recognized by the American Rabbit Breeders Association are eligible. Rabbits will be judged according to ARBA standards.
- Each rabbit must be permanently tattooed in the left ear for identification purposes.
- No crossbred breeding classes will be conducted at the State Fair
- Rabbits must be owned & ID affidavits submitted into 4-H Online by June 1st.

RUNNING BREEDS

Senior Buck over 8 months of age
Senior Doe over 8 months of age
Intermediate Buck 6-8 months of age
Intermediate Doe 6-8 months of age
Junior Buck under 6 months of age
Junior Doe under 6 months of age

Requirements:

- Breeding Rabbit requirements apply to Running Breeds
- Running Breeds include Checkered Giant, English Spot, Rhinelander and Tan

MARKET RABBIT

Rabbit - Single Fryer, 3 ½ to 5 ½ pounds, not over 70 days old

Rabbit - Pen of three fryers, 3 ½ to 5 ½ pounds, not over 70 days old

Note: Fryers or meat pens may not be leased.

CLOVERBUD RABBIT

- Cloverbud Rabbit
- Cloverbud Rabbit Poster

RABBIT POSTER

Rabbit Poster - Educational or promotional poster may be selected to advance to the state fair. See state fair poster requirements under rabbit information.

RABBIT SHOWMANSHIP

- Rabbit Showmanship

CAVIE (no State Fair trips)

- Cavie – Senior Boar (over 6 months of age and more than 32 oz)
- Cavie – Senior Sow
- Cavie – Intermediate Boar (up to 6 months of age OR over 22 oz up to and including 32 oz)
- Cavie – Intermediate Sows
- Cavie – Junior Boar (up to 4 months of age, minimum weight of 12 oz up to and including 22 oz)
- Cavie – Junior Sow

Requirements:

- Cavies will be judged according to the ARBA rules for Standard of Breeds and will be judged after rabbit judging.
- There are no State Fair trips awarded in Cavies. This is an exhibition class only.
- There are no showmanship awards in this class.

CLOVERBUD CAVIE

- Cloverbud Cavie
- Cloverbud Cavie Poster

☘ SHEEP

<u>BIRTH DATES</u>	
January Ewe Lamb	Born in January of current Year
February Ewe Lamb	Born in February of current Year
March Ewe Lamb	Born in March of current Year
Yearling Ewe	Born on or after January 1 of previous year and must not show evidence of four permanent incisors.
Market Lamb	Born on or after January 1 of current year

BREEDING EWE

Use the following classes and the birth dates above to indicate the age of your project animal(s):

- Sheep – Ewe Lamb born on or after January 1 of current year (not eligible for market auction)
- Sheep – Yearling Ewe

MARKET LAMB

Market Lamb Ewe
Market Lamb Wether

Requirements:

- Recommended minimum weight for State Fair is 105 pounds; recommended maximum weight is 170 pounds.

CLOVERBUD SHEEP

- Cloverbud Sheep
- Cloverbud Sheep Poster

SHEEP SHOWMANSHIP

- Jr. Sheep Showmanship - Grades 8 & below
- Sr. Sheep Showmanship - Grades 9 & above

SHEEP POSTER

Sheep Poster – see Science of Animals Exhibits

☘ SWINE

Market Gilts will be shown at State Fair.
(Note: Champion barrows and gilts will never compete and auction limitations will be in place.)

<u>BIRTH DATES:</u>	
January Gilt	Born in January of current year
February Gilt	Born in February of current year
March Gilt	Born in March of current year
Market Barrow	Born on or after January 1 of current year. Recommended farrow date of February 1 or after.
Market Gilt	Born on or after January 1 of current year. Recommended farrow date of February 1 or after.

BREEDING GILTS

Use the following class and the birth dates above to indicate the age of your project animal(s):

- Swine – Gilt born on or after January 1 of current year (not eligible for premium only market livestock auction)

MARKET BARROW/MARKET GILT

Use the following Classes and birth dates above, to indicate the age of your project animal(s):

- Swine - Market Barrow
- Swine - Market Gilt

Note: If you are only interested in the premium-only market livestock auction and not attending the State Fair, we encourage your hog to weigh approx. 240 lbs. by sale day.

Requirements:

- Recommended minimum weight for State Fair is 220 pounds; maximum State Fair weight is 300. Market barrows and market gilts weighing less than 220 pounds will show in their own class “Super Lightweights” and those 301 pounds and over will show in their own class “Super Heavyweights” and will be eligible for blue, red or

white ribbons and are not eligible for champions at State Fair.

ADVANCED SWINE

Swine – Sow with litter two to five weeks old (not eligible for state fair)

OTHER SWINE

Swine – Pot Belly Pig (not eligible for state fair)

CLOVERBUD SWINE

Cloverbud Swine
Cloverbud Swine Poster

SWINE SHOWMANSHIP

Jr. Swine Showmanship - Grades 8 & below
Sr. Swine Showmanship - Grades 9 & above

SWINE POSTER

Swine Poster – see Science of Animals Exhibits

☘ Science of Animals Educational Exhibits

Health, Breeding, Production, Zoonotics or Other

Beef
Dairy
Goat - Dairy
Goat - Meat
Poultry
Rabbits
Sheep
Swine

Exhibit Suggestions:

- Items constructed (such as feeding systems or show equipment) or science exhibits focusing on one of the five divisions listed above.
- These projects may be enhanced with 3-dimensional displays, posters or notebooks.

State Fair trips will be available. Exhibits will be judged during Livestock Weekend and 4-H'ers may exhibit both an animal and a Science of Animal Educational Exhibit. NOTE: Llama, Poultry and Rabbit promotional and educational posters are an exhibit item at the state level and may be entered as a poster in each respective area.

GENERAL EXHIBITS

General Exhibits is a broad category that captures all other project areas other than demonstrations, club activities, and animal science. The following are the specific projects available for the entry of general exhibits:

☘ AEROSPACE

Aerospace - Grades 9+

Aerospace - Grades 6-8

Aerospace - Grades 3-5

Requirements:

- Flyable models should be ready for flight (do not include fuel); recovery system should be in place and operative.
- Members should be familiar with safety codes in 4-H curriculum.

Exhibit Suggestions:

- Flyable models built from kit or your own design.
- Non flyable models built from kit or your own design.
- Display of other equipment needed for aerospace project.
- A rocket launch.

☘ AGRONOMY

AGRICULTURAL TECHNOLOGY

Agricultural Technology - Grades 9+

Agricultural Technology - Grades 6-8

Agricultural Technology - Grades 3-5

Exhibit Suggestions:

- A display or presentation highlighting the technology used in agriculture such as GPS tools, drone use, implement technology, yield mapping, genetic engineering, seed traits, agricultural chemistry, precision agriculture, on-farm research, side by side trials, etc.

CORN

Corn- Grades 9+

Corn- Grades 6-8

Corn - Grades 3-5

Requirements:

- Crop must be grown on a farm with which you have a relationship with the producer and have interviewed the producer about the growing process. Crops must have been grown in the current or previous growing season.
- Include a 3 x 5 index card listing the variety, soil and agronomy information of the crop if exhibit is a crop sample.
- Be familiar with crop input costs and the growing process.

Exhibit Suggestions:

- A two-quart exhibit of shelled corn, placed in a clear two-quart jar or 2 clear one-quart jars.
- A display of ears of dent corn, consisting of 6-10 ears of corn of the same variety.
- A bundle of corn stalks, consisting of stalks of the same variety.
- An educational display illustrating corn's plant reproduction, different types of corn, plant growth factors, plant characteristics, plant part identification, growing and

using plants, plant growth and food production, examples of a plant disease, etc.

FORAGES

Forages - Grades 9+

Forages - Grades 6-8

Forages - Grades 3-5

Requirements:

- Crop must be grown on a farm with which you have a relationship with the producer and have interviewed the producer about the growing process. Crops must have been grown in the current or previous growing season.
- Include a 3 x 5 index card listing the variety if the exhibit is a crop sample.
- Be familiar with crop input costs and the growing process.

Exhibit Suggestions:

- A dried sample, in a 3-5 inch tied, dried bundle, clear container of ensiled forages or in a sample 4-6 inch slab of a bale of forage. Forages include alfalfa, warm season grasses, cool season grasses, sorghum, native grasses, silage, etc. It is recommended that a sample analysis of your forage accompanies the sample. (Kits **from DHIA** are available at the Extension Office, <http://www.stearnsdhiab.com/>)
- An educational display illustrating one of the following ideas: nutritional analysis of feedstuff, plant reproduction, plant growth factors, plant characteristics, growing and using plants, plant growth and food production, examples of a plant disease, etc. of forages.

PLANT AND SOIL SCIENCE

Plant & Soil Science - Grades 9+

Plant & Soil Science - Grades 6-8

Plant & Soil Science - Grades 3-5

Exhibit Suggestions:

- Take soil samples and compare soil analysis (soil analysis can be done by obtaining kits at your local Extension Office).
- An exhibit showing different varieties of forages, cover crops, etc. (seed or plant)
- A plant life cycle exhibit highlighting the growth of a plant from seed to a mature plant.

SMALL GRAINS

Small Grains - Grades 9+

Small Grains - Grades 6-8

Small Grains - Grades 3-5

Requirements:

- Crop must be grown on a farm with which you have a relationship with the producer and have interviewed the producer about the growing process. Crops must have been grown in the current or previous growing season.
- Include a 3 x 5 index card listing the variety if the exhibit is a crop sample.

- Be familiar with crop input costs and the growing process.

Exhibit Suggestions:

- A two-quart exhibit of any small grain variety' must be placed in a clear two-quart jar or 2 clear one-quart jars. This could include wheat, oats, rye, barley, etc.
- A dried sample, in a 3-5 inch tied, dried bundle of the same variety.
- An educational display illustrating one of the following ideas: plant reproduction, plant growth factors, plant characteristics, usage of plants, plant growth and food production, examples of a plant disease, etc. of a small grain.

SOYBEANS

Soybeans - Grades 9+

Soybeans- Grades 6-8

Soybeans- Grades 3-5

Requirements:

- Crop must be grown on a farm with which you have a relationship with the producer and have interviewed the producer about the growing process. Crop must have been grown in the current or previous growing season.
- Include a 3 x 5 index card listing the variety if the exhibit is a crop sample.
- Be familiar with crop input costs and the growing process.

Exhibit Suggestions:

- A two-quart exhibit of soybeans; placed in a clear two-quart jar or 2 clear one-quart jars.
- A dried sample, in a 3-5 inch tied, dried bundle of the same variety.
- An educational display illustrating plant reproduction, plant growth factors, plant characteristics, usage of plants or seeds, plant growth and food production, examples of a plant disease, etc. of a soybean.

SPECIALTY CROPS

Specialty Crops - Grades 9+

Specialty Crops - Grades 6-8

Specialty Crops - Grades 3-5

Requirements:

- Crop must be grown on a farm with which you have a relationship with the producer and have interviewed the producer about the growing process. Crops must have been grown in the current or previous growing season.
- Include a 3 x 5 index card listing the variety if the exhibit is a crop sample.
- Be familiar with crop input costs and the growing process.

Exhibit Suggestions:

- An adequate sample of a specialty crop such as sugar beets, edible beans, black beans, kidney beans, field

produced sweet corn, peas, carrots, potatoes, popcorn, etc. Dried products should be in a two-quart jar; fresh products on a plate or flat box.

- A dried sample, in a 3-5 inch tied, dried bundle of the same variety.
- An educational display illustrating one of the following ideas: plant reproduction, plant growth factors, plant characteristics, usage of plants, plant growth and food production, examples of a plant disease, etc. of a specialty crop.

WEEDS & PESTS

Weeds & Pests - Grades 9+

Weeds & Pests - Grades 6-8

Weeds & Pests - Grades 3-5

Exhibit Suggestions:

- A display or presentation highlighting any current pests in agriculture or horticulture. Could include their life cycle, prevention or treatment, their impact on the plant, etc.
- A weed display or book identifying different weeds in agriculture or horticulture. Highlight one weed in depth, a class of weeds (such as grasses or broad leaves) or a collection of different weeds. Could include identification details, life cycle, weed control, the impact on crop production, etc.
- *Note: Do not include live or dried noxious weed samples in your display (check current listing at <https://www.mda.state.mn.us/plants/pestmanagement/weedcontrol/noxiouslist.aspx>). If you are bringing in a sample of weed seeds, put it in a sealed container.

BICYCLE

Bicycle - Grades 9+

Bicycle - Grades 6-8

Bicycle - Grades 3-5

Exhibit Suggestions:

- Display showing types of bikes, parts of a bike, maintenance, traffic rules, bicycling hazards, how to wear a helmet, equipment used to teach others about bike repair or first aid, etc.
- Notebook or picture story of a bike rodeo or other bike event you helped with, or research on some other aspect of bicycling that was presented to a class or service club.

CAT

Cat - Grades 9+

Cat - Grades 6-8

Cat - Grades 3-5

Cat – Exhibit with Cat

Cat – Cloverbud

Requirements:

- A cat may be entered with the exhibit. The exhibitor must maintain control of the cat at all times, and the cat must be taken home after conference judging. If selected, the cat does not go to the State Fair.

Exhibit Suggestions:

- Educational exhibits may include models, diagrams or pictures. Members must have a photograph of themselves with their cat shown on a display or poster. Be prepared to answer questions about your cat and its care.

CHILD & FAMILY DEVELOPMENT

Child & Family Development - Grades 9+

Child & Family Development - Grades 6-8

Child & Family Development - Grades 3-5

Requirements:

- Exhibitors should be prepared to discuss, in conference judging, the age and other characteristics of the child for whom the exhibit is intended and how the exhibit contributes to the child's growth, development, and well-being.
- If the exhibit is designed to be interactive with children, the item is to be used with children before exhibiting and a photograph of this activity must accompany the exhibit. Signs of use will not detract from the placing of the exhibit.

Exhibit Suggestions:

- Toy, game, puzzle, puppets, art/craft materials, etc., made from new or recycled/throw-away material.
- Babysitting kit/travel kit/rainy day kit, including at least one item made by exhibitor.
- Original book, story, poem, song, play, cookbook, audio or video tape and narrative, activity book, safety manual for children, file about children and/or families.
- Scrapbook, photographs, items, reports, video, etc., on family heritage with description of what was learned about self and family.
- A creatively developed program and/or item used for or with a person with a special need (gifted, developmentally delayed, physically impaired, etc.).

CITIZENSHIP

Citizenship - Grades 9+

Citizenship - Grades 6-8

Citizenship - Grades 3-5

Exhibit Suggestions:

- A 3-Ring binder, report binder or 3-sided display reporting on community projects and/or citizenship activities which you or your club completed under your leadership. Include plans of action as well as the evaluation of each.
- A written narrative and/or visual communication presentation of 8 to 10 minutes, using photos, video and/or slides, to show how you worked with others in your community to solve problems.

CLOTHING AND TEXTILES

Clothes You Make - Grades 9+

Clothes You Make - Grades 6-8

Clothes You Make - Grades 3-5

Clothes You Make - Cloverbud**Clothes You Buy - Grades 9+****Clothes You Buy - Grades 6-8****Clothes You Buy - Grades 3-5****Clothes you Buy - Cloverbud****Non-Garment - Grades 9+****Non-Garment - Grades 6-8****Non-Garment - Grades 3-5****Non-Garment - Cloverbud****Fashion Revue Clothes You Make - Grades 9+****Fashion Revue Clothes You Make - Grades 6-8****Fashion Revue Clothes You Make - Grades 3-5****Fashion Revue Clothes You Make - Cloverbud****Fashion Revue Clothes You Buy - Grades 9+****Fashion Revue Clothes You Buy - Grades 6-8****Fashion Revue Clothes You Buy - Grades 3-5****Fashion Revue Clothes You Buy - Cloverbud****Clothes or Non Garment You Make Requirements:**

- Each garment must include an information tag listing: pattern company name and number, fiber content of fabric and care instructions, member name and club. Contact the Extension office for an information tag.
- Garments may have been worn before showing but should be cleaned before exhibiting.
- Items constructed should be appropriate for skill level and experience of exhibitor.

Clothes or Non Garment You Make Exhibit Suggestions:**Grades 3-5:**

- A simple constructed garment (i.e. shorts, pants, top, jumper/dress). Garment can, but is not required to include any of the following: collar, set-in sleeves, buttons/button holes, gathers, tucks, pleats, zipper, or waistband.
- A non-garment project such as a pillow top, tote bag, chef's apron, backpack, etc.

Grades 6-8:

- A constructed garment (i.e. blouse, shirt, skirt, pants, sweatshirt, jumper, etc.) and can include any of the following if appropriate to 4-H'er's skill level and experience: collar/lapel, set-in or ragan sleeves, cuffs/ribbing, buttons, zipper, waistband, pockets, etc.
- Creative sewing such as wearable art, costume, purse, or use of techniques such as knitting, cross-stitch, etc. that have been incorporated into the garment.
- A garment mended, repaired, or recycled along with a photo of the original garment and the steps taken to mend, repair, or recycle.

Grades 9 & Up:

- A constructed garment appropriate to 4-H'er's skill level and experience. 4-H'er can use new fabrics, techniques, tailoring, etc. expanding on the grades 6-8 suggestions.
- Creative sewing appropriate to the skill level and experience.

Clothes or Non Garment You Buy Requirements:

- The purchased garment or outfit **must** be accompanied by an 8-1/2"x 11" binder with, at minimum, the following information:
 - a) Colored photo of member wearing the garment. Label photo with name, county, and color of complexion, hair and eyes.
 - b) Cost of garment. Explanation of why garment was purchased and examples of ways it will be used in existing wardrobe, and include inventory of wardrobe.
- Garments may have been worn before showing but should be cleaned and pressed before exhibiting.
- For intermediate (grades 6-8) and advanced (grades 9 & up), exhibits should include a 22" x 28" poster expanding on information in the notebook. Possible ideas include cost comparisons, cost per wearing, wardrobe building, accessorizing, fabric structure, care, etc. For beginners (grades 3-5), a poster is optional.

Clothes or Non Garment You Buy Exhibit suggestions:

- A purchased garment that fits into your wardrobe plan.
- A poster showing cost comparisons, wardrobe building, accessorizing, care, etc. (required for intermediate and advanced, optional for beginner)

Fashion Revue Clothes You Make or Buy Requirements

- Participants may model any clothing they have constructed, restyled or purchased as a part of their 4-H clothing project.

Note: At State Fair, clothing exhibitors can use the same garment to participate in both Fashion Revue and regular clothing in the same year.

✻ CLOVERBUDS**Cloverbud - Project Made at Home or at a Meeting****Cloverbud – Dairy****Cloverbud – Beef****Cloverbud – Goat****Cloverbud – Dog****Cloverbud – Horse****Cloverbud – Poultry****Cloverbud – Rabbit****Cloverbud – Sheep****Cloverbud – Swine****Cloverbud – Demonstration (individual)****Cloverbud – Poster (Dairy, Beef, Goat, Dog, Horse,****Poultry, Rabbit, Sheep or Swine)****Cloverbud - Clothes you Buy****Cloverbud - Clothes You Make****Cloverbud - Fashion Revue Clothes You Buy****Cloverbud - Fashion Revue Clothes You Make****Cloverbud – Food Review****Cloverbud - Quilting****Cloverbud - Non-Garment**

Cloverbud – Performing Arts

- Cloverbuds is an introductory program to 4-H. The focus of Cloverbud participation in the fair is on gaining experience preparing and presenting their projects individually. As such, participation in the fair is non-competitive, and Cloverbuds who successfully exhibit their projects will receive a ribbon and premium as specified in the Exhibit Rules.
- Cloverbud members have completed grades K - 2
- Cloverbuds are permitted to submit entries into a maximum of 5 exhibits.
- For more information on Cloverbud animal projects, please see the desired animal in the Animal Science section of this book and the Cloverbud information sheet provided to Cloverbud members.

Exhibit Suggestions:

- Any item made by the Cloverbud member at an afterschool Cloverbud program or Project Day
- Any item made at home, examples include 3 cut flowers in a vase, a potted plant, vegetable creature or creation, a nutritious food snack, a simple item you made for your home like a pillow, placemat, etc., rock creature, paper bag puppet, 4 interesting objects of nature, tree leaf collection, display of insects, simple craft item, or anything else you can think of.

No State Fair trips in this division.

Note – Cloverbud exhibits, including livestock posters, should not be judged blue, red and white. Instead, all should receive participation recognition.

COMPUTER

Computer - Grades 9+

Computer - Grades 6-8

Computer - Grades 3-5

Requirements:

- Computers may be used in judging, but emphasis is on documentation, screen print, and summary. 4-H'ers are responsible for providing and securing any hardware used for judging; hardware may not be left on display.
- Reports and written summaries should be bound in a booklet or placed in a folder.

Exhibit Suggestions:

- Display showing the parts of a computer and how they work, consumer choices involved when buying a computer, how computer software can be put to use. Include statement of purpose, written plan for use, and examples of use.
- Program/software developed by the 4-H member including a statement of objectives, and discussion of program. Program/software be original or adapted by the member from an existing program.

CONSUMER EDUCATION

Consumer Education - Grades 9+

Consumer Education - Grades 6-8

Consumer Education - Grades 3-5

Requirements:

- Exhibitor should be able to explain his/her choices and the reasons for those choices.

Exhibit Suggestions:

- Label comparison showing different types of labels and/or models of same included.
- Consumer comparison comparing several models of the same item, showing feature, costs, etc., with best item selected and reasons why.

CRAFTS & FINE ARTS

Note: Members enrolled in Crafts & Fine Arts can exhibit in both Fine Arts and Crafts.

CRAFTS

Crafts - Grades 9+

Crafts - Grades 6-8

Crafts - Grades 3-5

Requirement:

- Each exhibit will be evaluated on its individual merit as a craft/kit.
- Emphasis is on the creative process and the employment of design elements and principles. The craft/kit exhibit develops from someone else's ideas and can be exactly replicated or replicated with modifications.
- All art objects must be appropriately finished. Exhibits will be disqualified if not ready for hanging, displaying, etc. (i.e. wire or hooks on paintings, bases for 3 dimensional work, etc.)

Exhibit Suggestions:

- For a beginner, choose a project that teaches new techniques. For advanced, choose a project requiring masterful craftsmanship.
- Basket making, tie dye, beading, ceramics, leather tooling, calligraphy, work from kits, etc.

FINE ARTS

Fine Arts - Grades 9+

Fine Arts - Grades 6-8

Fine Arts - Grades 3-5

Requirement:

- Each exhibit will be evaluated on its individual merit as an original fine art.
- Emphasis is on the creative process and the employment of design elements and principles. The fine art exhibit should show proof that it is developed from the 4-H'ers own ideas and imagination.
- All art objects must be appropriately finished. Exhibits will be disqualified if not ready for hanging, displaying, etc. (i.e. wire or hooks on paintings, bases for 3 dimensional work, etc.)

Exhibit Suggestions:

- For a beginner, choose a project that teaches new techniques. For advanced, choose a project requiring mastery.
- Original work (no kits) in drawing, painting, sculpture, print process, textiles, pottery, etc.

✿ CROP SCIENCES

CORN

See "Agronomy" section

SMALL GRAINS & LEGUMES

See "Agronomy" Section

✿ DOG

Dog - Grades 9+

Dog - Grades 6-8

Dog - Grades 3-5

Dog - Exhibit with Dog

Dog - Cloverbud

Note: The Dog Show is a different project and can be found in the Animal Science section.

Requirements:

- A dog may be entered with the exhibit. The exhibitor must maintain control of the dog at all times, and the dog must be taken home after conference judging. If selected, the dog does not go to the State Fair.

Exhibit Suggestions:

- Educational exhibits may include models, diagrams or pictures.
- Examples: dog diseases, breeding, training, etc.

✿ ELECTRIC

Electric - Grades 9+

Electric - Grades 6-8

Electric - Grades 3-5

Requirements:

- A wiring diagram or schematic must accompany all electric and electronic exhibits

Exhibit Suggestions:

- Working electrical item constructed for home, yard, or farm.
- Diagram of wiring in your home/farm showing switch locations, fuse boxes, wire size, capacities, fuse sizes, total bulk wattage, appliance wattage, number of circuits, and type of wiring installation.
- Electronic item built from kit, plan, or own design with an explanation of what it is and how it is used.
- Display ideas: Careers in electrical field, electrical experiment (may or may not have worked), educational display used in teaching others, etc.

✿ ENGINEERING DESIGN

See <https://extension.umn.edu/4-h-stem-projects/4-h-engineering-design-project> for more information

AQUATIC ROBOTICS

Aquatic Robotics - Grades 9+

Aquatic Robotics - Grades 6-8

Aquatic Robotics - Grades 3-5

Requirements:

- Design and build their own remote-operated vehicle (ROV)
- Use and adapt it to monitor water quality/Aquatic Invasive Species (AIS) education
- Work in teams of a least 3 youth, or individuals may exhibit
- Illustrate the community partnership (example: DNR, Water Resource or Lake Association)

Exhibit Suggestions:

- Display, binder, poster illustrating the process of doing the activity/project
- Exhibit of ROV
- Display showing their use in Aquatic Invasive Species (AIS) education
- Booklet showing their progression in Aquatic Invasive Species (AIS) education as a team

ENGINEERING DESIGN

Engineering Design - Grades 9+

Engineering Design - Grades 6-8

Engineering Design - Grades 3-5

Requirements:

- Include description of the problem/challenge being solved
- Include description of the engineering design process/steps undergone to solve problem

Exhibit Suggestions:

4-H members should use the 4-H Engineering Design Process: Ask, Imagine, Plan, Create and Improve as they work on their 4-H projects

- Engineering a roller coaster – Use KNEX or other materials to engineer and create a roller coaster
- Engineering a bridge – using everyday items create a bridge to sustain 5 pounds of weight
- Engineering a catapult/trebuchet – using everyday items to create a machine to launch a marshmallow 3 feet and no longer than 5 feet
- Engineer a wind turbine to solve a problem (example: using the wind energy to lift a bucket)
- Thinking like an engineer – brainstorm an idea, create a model, test it and document the process from beginning

to end and share your findings on a display board, poster or three ring binder

- Using everyday items to build a simple machine to complete a simple task
- Using everyday items to create a product to solve a real life situation

ENGINEERING DESIGN CHALLENGE LEVEL 1 & 2

Engineering Design Challenge Team Member:

Level 1 - grades 3 – 8

Level 2 grades 7 - 12

Each member (regardless of age) needs to register in one of these classes.

An Engineering Design Challenge machine is based on Rube Goldberg, an overly complex contraption designed to accomplish a simple task. The best machines use a variety of everyday items to create a series of chain-reaction steps to accomplish a simple task. In the project, youth not only employ physics and engineering, but humor and storytelling, to create their machine.

This activity is a team event of at least 3 and no more than 10 members.

Requirements:

- Please refer to the Engineering Design Challenge Level 1 and 2 Handbooks at z.umn.edu/4hedc for complete details.
- Teams of at least 3 youth
- Minimum of 10 steps
- Machine must operate in 2 minutes or less
- Exhibit physical size limited to 6 ft x 6 ft x 6 ft
- Explain one thing/step on the machine that uses science content and skills to help solve a problem/challenge
- Need to keep a written record illustrating the process of doing the project.

Exhibit Suggestions:

- Engineering Design Challenge machine itself
- Display, binder, poster illustrating the process of the doing the activity/project

Note: Again in 2020, the State Engineering Design Challenge for Level 1 and 2 will be held at a site other than the State Fair. However, challenge teams are invited to showcase their machine and project at the State Fair. Participants can also have other general projects judged. The State Engineering Design Challenge Event will be held on August 3, 2020 in St. Cloud.

ROBOTICS

Robotics - Grades 9+

Robotics - Grades 6-8

Robotics - Grades 3-5

Note: The goal of the 4-H robotics program is for the 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.

Requirements:

- Exhibits must be labeled with name, and county on all pieces of the exhibit.
- Include a description of the robot's ability to sense, follow a plan and complete an act
- Exhibits may have a one-page report explaining the function, purpose and construction of the robot.

Exhibit Suggestions:

- Robots, a display, diagrams of programming, booklets, etc.

ENTOMOLOGY

Entomology - Grades 9+

Entomology - Grades 6-8

Entomology - Grades 3-5

Requirements:

Insect Collection Exhibits:

1. Collections shall be contained in a glass topped case (drawers available for purchase in varying sizes); approximately 19" x 16.5" x 3" to 24" x 18" x 3". Arrange so that the case may be displayed in a horizontal position. Place project label on lower right corner of glass top. Only one case per exhibitor is allowed.
2. Specimens must be collected. Purchased insects are not acceptable.
3. Exhibitors must be the collector of the specimens in the project.
4. Specimens must be properly pinned with insect pins. Small insects may need to be placed on cardboard points.
5. Specimens must be properly labeled.
 - a. The location, date, and collector must be included on the labels. County and state (and country, when applicable) are minimum location information that should be included. It is valuable to include nearest town or township where the specimen was collected, the type of habitat it was collected from (e.g. on elm tree; on lake shore; indoors.), and the common name of the insect.
 - b. All labels should be visible so they can be read. Use permanent ink marker or pencil to write labels. Labels produced by a computer printer are acceptable. Ballpoint ink or non-permanent markers are not acceptable.

For more specific information on pinning, labeling, other information, see Collecting and Preserving Insects, A MN 4-H Entomology Resource, <https://extension.umn.edu/4-h-environment-earth-science-projects/4-h-entomology-project>.

- A. Emphasis of project must relate to an aspect of entomology.
- B. Project must demonstrate specific knowledge of insects. Be prepared to discuss references and sources (e.g. books, magazines, internet, interviews with an expert etc.)

- C. Live projects (e.g. bee or ant colony) will be accepted if the project can be self-sustaining for up to 14 days without special care.
- D. A written report or journal should accompany the project, introducing the subject, describing the process (materials and method), predicting an outcome, stating the results, and discussing any conclusions. Pictures, drawings, charts, tables, or other figures may be used.

Exhibit Suggestions:

- General Insect Collection: must consist of a minimum of 50 species of adult insects representing at least 8 orders. Beginners (grades 3-5) only need 25 specimens and no restrictions on orders.
- Specialty insect collection can include but is not limited to a collection of a single order (e.g. Coleoptera or Lepidoptera), a collection of immature insects, a collection of insects from a particular habitat (e.g. aquatic, forest, or prairie) or a collection of economic pests of a specific crop (e.g. insects attacking corn).
- Non-Collection Project can include but is not limited to life history displays (e.g. insect life cycle), scientific investigation (e.g. insect habitats or effects of environment factors on insects), or insects in current events.

✿ EXPLORING ANIMALS

Exploring Animals - Grades 9+

Exploring Animals - Grades 6-8

Exploring Animals - Grades 3-5

Requirements:

- This area is for 4-H'ers who wish to learn more about a given species. **Animal ownership is not required.**
- 4-Hers enrolled in Exploring Animals, Beef, Dairy, Goat, Poultry, Rabbit, Sheep or Swine may exhibit in this category.

Exhibit Suggestions:

- An educational exhibit to show or explain something 4-H'er made, did, learned, or may explore consumer issues, breeds or careers related to their selected animal.

✿ EXPLORING THE ENVIRONMENT

Exploring the Environment - Grades 9+

Exploring the Environment - Grades 6-8

Exploring the Environment - Grades 3-5

Exhibit Suggestions:

- Display on environmental pollution describing the causes, effects on people and other living things, and methods to correct the situation.
- Display showing features of soils such as color, structure, texture.
- A display or journal of Minnesota plants, insects, animals, birds or fish. Include pictures or drawings and information on habits, foods, and shelter needs.
- Display showing erosion control practices such as minimum tillage, terraces, contour strips, grassed waterways, field windbreaks, water control structures, etc.

✿ FISHING SPORTS

Fishing Sports - Grades 9+

Fishing Sports - Grades 6-8

Fishing Sports - Grades 3-5

Exhibit Suggestions:

- Fish identification. Describe the habitat and food needs of selected Minnesota fish; develop a panel display explaining the life history of a fish; create a model or exhibit identifying the parts of a fish.
- Fishing Knots. Identify how and where each knot is used; fishing equipment which is made or repaired such as lures, fishing rods and reels, ice fishing rig, or other fishing equipment.
- Safety practices and techniques that are related to fishing or boating.
- Examples of how water quality affects the fish ecosystem.

✿ FLOWER GARDENING

See "Horticulture" section

✿ FOODS AND NUTRITION

FOOD AND NUTRITION

Food & Nutrition - Grades 9+

Food & Nutrition - Grades 6-8

Food & Nutrition - Grades 3-5

Food & Nutrition - Bread

Food & Nutrition - Dairy Foods

Food & Nutrition - Microwave Cooking

Food & Nutrition - Meats

Requirements:

- Exhibit may be food items and/or displays.
- Exhibitors should be prepared to discuss with the judge, references and information sources, nutritional values, methods, menu, costs, etc., as appropriate to that exhibit.
- The exhibit may be a poster, mobile, three-dimensional display, scrapbook, balance beam, charts, journals, pictures, slides, equipment, supplies, photographs, puppet play, skit, judging comparison, taped interview, file of ideas, research study, etc.
- Pictures, food models, plaster, plastic, papier-mâché, etc., are preferable to perishable foods in an educational exhibit. Perishable foods should be used only if they add to or help explain the educational exhibit. If perishable food is a part of the exhibit, the food is to be brought just for judging.
- Exhibits containing perishable foods, which will be discarded, must include a colored photograph of the food. The photograph should be taken prior to the County Fair and attached to the display. This photograph and a 3X5 note card listing nutrition information and the recipe will be displayed at the exhibit instead of the food.

Exhibit Suggestions:

- Suggested exhibit amounts:
 - 4 cookies or bars
 - 4 muffins, biscuits, or yeast rolls
 - 4" square cake, unfrosted
 - 1 angel food cake
 - 4 rounds of lefse
 - 1 loaf of bread, yeast bread or quick bread
 - 6 pieces of candy made in a microwave
 - 4" square cake made in a microwave
- One serving of a nutritious food (vegetable or fruit dish, snack, bread, dairy, etc.). Include 8½ x 11 poster showing nutritional value, recipe, and a photo of the food.
- Study of nutrients needed for yourself or someone else, using the dietary guidelines and MyPlate.
- Make a food or fitness plan for yourself or someone else and show how it relates to nutritional and energy needs. (Example: an athlete on a volleyball team, a teen who doesn't have a lot of time).
- Adapt a recipe(s) to show healthier ingredient choices.
- Study of how physical fitness and/or food choices are related to disease (such as: cancer, heart disease, osteoporosis, diabetes, etc.).
- Study of labels from similar food items, comparing important nutrient content like fat, fiber, and sugar.
- Exhibit showing food and/or kitchen safety.
- Nutrition/food science experiment.

FOOD PRESERVATION**Food Preservation - Grades 9+****Food Preservation - Grades 6-8****Food Preservation - Grades 3-5**Requirements:

- All recipes, procedures, and times followed must be according to current USDA and/or National Center for Home Food Preservation recommendations.
- All food preservation exhibits must be labeled with a 2" x 3" label. Labels to include county, name, grade, product, style of pack, processing method (boiling water bath or pressure canner), date, processing time, date processed and source of recipe. Pressure canned items indicate dial or weighted gauge and how many pounds of pressure used.
- Jars must be heat-tempered glass canning jars.
- All jars must be sealed. Leave screw bands on two-piece jar lids. Jellies and jams must be covered with lids.
- Use pint jars for fruit, vegetables, and fish; one-half pint jars for jams and jellies; and one pint jar for pickled products.
- Jellies and jams must be processed in boiling water bath according to USDA and/or University of Minnesota food preservation publications, available through the Extension Office. Note: Paraffin is not acceptable.
- No artificial food coloring should be added to entries.
- Dried foods may be stored in glass jars, self-sealing plastic bags or airtight plastic bags. The quantity of dried foods should be: fruits and vegetables - 1/2 cup or more of each,

herbs - 1/4 cup of each in whole leaf form, 3 strips of meat (i.e. venison or beef jerky).

- All entries must be preserved within the past year.

Exhibit suggestions:

- Suggested exhibits include one (1) jar or one (1) bag of product:
 - Vegetables or fruits
 - Jams, jellies, preserves, low-sugar spreads (no frozen)
 - Pickled products (fermented or added acid, including pickles, sauerkraut, relishes, salsa).
 - Meats, poultry and/or fish. (Fish must be in pint jars.)
 - Dried vegetables or dried fruits.
 - Dried herbs.
 - Beef or venison jerky.
 - Food science experiment or educational display.

FOOD REVIEW**Food Review - Grades 9+****Food Review - Grades 6-8****Food Review - Grades 3-5****Food Review - Cloverbud**Judging:

The Food Review competition is judged 50% on knowledge and 50% on the appearance of the food, posters/menu, and table setting. The judge may or may not taste the food.

Exhibit suggestions:

The following guidelines will help you prepare for the Food Review:

- Select a tested recipe from a reliable cookbook, 4-H foods bulletin, or other dependable source.
- Practice preparing the selected recipe until it can be done easily and a good product is achieved. You should be able not only to prepare the recipe but also explain it.
- Plan and design a menu for the family for a meal or snack including your selected recipe.
- Plan the table coverings or mats; the dishes, glassware, and silverware; and the centerpiece to use for serving the food. Set the table as planned, and include the recipe and the menu. (note: if planning a snack, your table should be simpler to reflect this, i.e. no centerpiece or covering)
- Calculate the total cost of preparing and presenting the meal/snack, including the price per serving.
- Bring a poster, photo, menu, and/or recipe to the fair for display purposes (there will not be food preparation at the fair).

FOREST RESOURCES**Forest Resources - Grades 9+****Forest Resources - Grades 6-8****Forest Resources - Grades 3-5**Requirement:

- Exhibits should be mounted on cardboard or other sturdy material.

Exhibit Suggestions:

- Collection of leaves or needles with twigs, identified with their common name. Common name should be printed near the identified leaf/needle.
- Photographic display of forest products--include the name of the product/use to identify the photograph.
- Display showing tree growth; annual ring cross-sections; make a seed collection.
- Prepare a report with drawings about your favorite tree--include name of tree, drawings or pictures of tree, facts and uses of the tree, and other appropriate information.
- Display showing layers of the forest; renewable versus non-renewable resources; forestry careers; leaf and twig identification; taxonomic keys; tree road maps.
- Display showing forest succession; tree and forest measurements; fire's effect on the forest; how trees grow; forest types; harvesting methods; entomology of the forest; pathology of the forest.
- Display showing forest products, including maple syrup production; wood products; Christmas trees or other forest resources (recreation, wildlife, etc.).
- Display showing specialized woodland management, including shelterbelts/windbreaks and urban forestry.

🌿 FRUIT

See "Fruit, Vegetable and Herb Gardening" section

🌿 FRUIT, VEGETABLE AND HERB GARDENING

FRUIT

- Fruit - Grades 9+**
- Fruit - Grades 6-8**
- Fruit - Grades 3-5**

Requirements:

- If displaying a fruit sample, exhibitor should bring 4-6 items of one variety of fruit and include a 3 x 5 index card listing the varieties of fruit, name and club of exhibitor.

Exhibit Suggestions:

- Display showing a comparison of several varieties of the same fruit (labeled); display using a branch to illustrate proper pruning of fruit trees and explaining the process; illustrate the many uses of fruits (fresh, jams, juices, cooking, baking, salads and recipes); illustrate the use of fruits as natural dyes.
- Display showing a comparison of several varieties of the same fruit (labeled); display using a branch to illustrate proper pruning of fruit trees and explaining the process; illustrate the many uses of fruits (fresh, jams, juices, cooking, baking, salads and recipes); illustrate the use of fruits as natural dyes.
- Educational display illustrating diseases (actual specimens) or insects (actual specimens) and methods of control.

HERB GARDENING

- Herb Gardening - Grades 9+**
- Herb Gardening - Grades 6-8**
- Herb Gardening - Grades 3-5**

Exhibit Suggestions:

- Educational display showing some aspect of raising or using herbs.
- An herb container garden planted in a tub, pot, or planter.
- A dried sample of herbs you have raised, harvested, and dried (in an airtight container)

POTATOES

- Potatoes - Grades 9+**
- Potatoes - Grades 6-8**
- Potatoes - Grades 3-5**

Requirements:

- If displaying a potato box, you need 6-10 potatoes of the same variety or 2-3 varieties (this year's crop) similar in size with variety identified on a 3 x 5 card.
- Be familiar with crop input costs and the growing process.

Exhibit Suggestions:

- Display a box of potatoes that contains all the potatoes in that hill (all the potatoes one plant produced)
- Display a box of potatoes of 6-10 potatoes
- Educational display illustrating diseases and control, methods of mulching and reasons, causes and effects of sun scald.

VEGETABLE GARDENING BOX

- Vegetable Gardening Box - Grades 9+**
- Vegetable Gardening Box - Grades 6-8**
- Vegetable Gardening Box - Grades 3-5**

Requirements:

- Label vegetables with proper variety names.
- When exhibiting a collection of vegetables, the collection should include six different kinds of vegetables (For example: 1 large specimen + 3 medium specimen + 2 small specimen = 6 different vegetable specimens for this project choosing any combination of the following:
- One large vegetable specimen (cabbage, squash, melon, pumpkin, cauliflower, etc.)
- Three different medium sized vegetable specimens and 3 of each specimen (tomatoes, onions, peppers, cucumbers, kohlrabi, carrots, beets, turnips, etc.)
- Two small vegetable specimen's and 6- 12 of each specimen (green beans, peas, lima beans, etc.)
- Potatoes may not be included (enter under the Potato project).

VEGETABLE PLATE

- Vegetable Plate - Grades 9+**

Vegetable Plate - Grades 6-8**Vegetable Plate - Grades 3-5**Requirements:

- Label vegetables with proper variety names.

Exhibit Suggestions:

- On a disposable plate, display a collection of vegetables that includes one or more kinds of vegetables, choosing any combination of the following:
- Large vegetable specimen: 1 sample (cabbage, squash, melon, pumpkin, cauliflower, etc.)
- Medium sized vegetable specimen: 3 of each specimen (tomatoes, potatoes, onions, peppers, cucumbers, kohlrabi, carrots, beets, turnips, asparagus, etc.)
- Small vegetable specimen: 6- 12 of each specimen (green beans, peas, cherry tomatoes, jalapenos, lima beans, etc.)

LARGEST VEGETABLE**Largest Vegetable - Grades 9+****Largest Vegetable - Grades 6-8****Largest Vegetable - Grades 3-5**Requirements:

- Include an information card with name, plant variety and date planted.
- Stalks of Field Corn should have roots on the stalk.

Exhibit Options:

- Squash
- Cabbage
- Pumpkin
- Melons
- Tallest Stalk of Field Corn

GEOLOGY**Geology - Grades 9+****Geology - Grades 6-8****Geology - Grades 3-5**Requirement:

- Attach specimens securely to a backboard and display in a glass-topped case of the same model as used by the entomologists (approximately 19" x 16.5" x 3"). Specimens should be approximately 2" x 2". Label each specimen using the label described on page seven of the Geology Manual, found at <https://extension.umn.edu/projects-and-more/4-h-geology-project#learning-more-249061>. Size of label may be reduced to fit display case, if needed. Attach specimens so they will not fall if case is set on its edge. Member must have knowledge of how specimens are identified as to rock or fossil type.

Exhibit Suggestions:

- Display of birthstones, a rock plate, or an egg carton collection (see geology bulletin), six silly silicates.

- Rocks, minerals, or fossils from within Minnesota or on a definite theme such as metamorphism, weathering, quartz minerals, ores, or a theme of your own choosing.
- Polished rock types used to make decorative items such as paperweights and jewelry; include an unpolished specimen of each rock type.
- Educational exhibit showing the "science how's and why's" dealing with the principles of geology and natural earth sciences.

GLOBAL CONNECTIONS**Global Connections - Grades 9+****Global Connections - Grades 6-8****Global Connections - Grades 3-5**Exhibit Suggestions:

- Poster or report explaining what you learned as a result of a cross-cultural home stay experience.
- Report or display on mission trip, school trip, pen pal, etc.

HEALTH**Health - Grades 9+****Health - Grades 6-8****Health - Grades 3-5**Exhibit Suggestions:

- Report on a health issue (i.e. alcohol and chemical abuse, eating disorders, sexuality, sexually transmitted disease, pregnancy, stress, depression) of your choice.
- Report on a community project that you conducted on a health issue. Include objectives, audience, timetable, program description, materials, community support and evaluation.

HOME ENVIRONMENT**Home Environment - Grades 9+****Home Environment - Grades 6-8****Home Environment - Grades 3-5**Requirements:

- Members exhibiting in this project should be prepared to discuss and/or have written information to show how their exhibit applies to the home, how and where it is used or displayed, and all details of how it was made or selected. They should know about the subject matter of the specific exhibit, the materials used, how and why it was done, costs involved, and alternatives considered
- A photograph and report showing its place in the home environment must accompany exhibits that are items for the home.
- Pictures and wall hangings that are exhibited should be finished and ready to hang.
- Purchased kits are allowed to be used.

Exhibit Suggestions:

- Finished or refinished wood item, or reupholstered furniture.
- Repaired, restored, or remodeled item for the home.

- Chart and/or plan for the care and maintenance of the inside or outside of the home including daily, weekly, monthly, and yearly jobs.
- An article remade or reclaimed for the home with a link to the past, including history of use.
- Description, diagrams/photos, samples and cost of a redecorating or remodeling plan showing before and after.

✿ HORTICULTURE

FLOWER GARDENING

- Flower Gardening - Grades 9+**
- Flower Gardening - Grades 6-8**
- Flower Gardening - Grades 3-5**

Requirements:

- Label each container according to kind or variety.
- Outdoor living flowers and plants are to be exhibited in this area (including Outdoor Fairy Gardens)
- Live plant material will be accepted if it can be maintained in a fresh condition with ease.

Exhibit Suggestions:

- When exhibiting cut flowers, we suggest:
 - three stems of one variety of annual flowers, or
 - one stem of a hardy perennial, or
 - one stem of summer flowering bulbs, or
 - one blossom of a tea rose, or
 - one stem of a hardy shrub rose.
- Flower bouquet or arrangement on any theme.
- Display of dried flowers with a card explaining the drying method.
- My Flower Garden - Exhibit on poster board, not to exceed 22 x 28". Include a plan of the garden drawn to scale, the correct variety name and pictures (or photographs) of the flowers grown. Be prepared to discuss the process from soil preparation to blooming.
- Educational Exhibit showing the principles of propagation or reproduction, nutrition, culture and physiology (how a plant lives and grows).

INDOOR GARDENING

- Indoor Gardening - Grades 9+**
- Indoor Gardening - Grades 6-8**
- Indoor Gardening - Grades 3-5**

Requirements:

- Indoor living flowers and plants are to be exhibited in this area (including Indoor Fairy Gardens)
- Potted Plants:
 - Flowering plants should be in bloom.
 - Foliage plants should be in vigorous condition.
 - Plants should be grown in the exhibited container for at least one month prior to fair.
- Plants In Hanging Containers:
 - Container for the plant should not be more than 10" in depth or diameter.

- Maximum total length of hanger and plant should not exceed 4'
- Evaluation will include appropriateness of plant for a hanging container, condition, arrangement, hanger to container to plant relationship, and plants being well established.

• Terrariums:

- The terrarium may not exceed 24" in any dimension.
- Terrarium should be planted four to six weeks ahead of exhibiting.
- Members must be able to identify all plant materials in their terrariums, know why they were selected for use (quality, container and design).

Exhibit Suggestions:

- Two or more varieties of house plants with common and botanical name.
- Terrarium or dish garden: consider terrarium material of general terrarium plant of native and woodland plants of Minnesota.
- Educational exhibit showing plant propagation, plant history, forcing bulbs, life cycle of a flowering plant, etc.

✿ INDOOR GARDENING

See "Horticulture" section

✿ LAWN AND LANDSCAPE DESIGN

- Lawn & Landscape Design - Grades 9+**
- Lawn & Landscape Design - Grades 6-8**
- Lawn & Landscape Design - Grades 3-5**

Requirements:

- Evaluation will be based on design, neatness, plants used, and story told.

Exhibit Suggestions:

- Landscape Plan (not to exceed 22" x 28") drawn to scale with plants and major areas of yard labeled; should show changes and future plans. Photographs showing "before and after" views are desirable.
- Design a project meeting for this project area (in booklet form) including what you would teach, how you would teach it, goals of your meeting, activities you would include, and visual aids you would use.

✿ NEEDLE ARTS

- Needle Arts - Grades 9+**
- Needle Arts - Grades 6-8**
- Needle Arts - Grades 3-5**

Requirements:

- Each exhibit must include a consumer information tag, if appropriate, with the following information: pattern company name and number, techniques, fiber content, cost, and care instructions.
- Participant is encouraged to bring instructions/pattern

- If item is framed, a wall hanging, or to be displayed on a wall, it should be finished and ready to hang.

Exhibit suggestions:

- Any item made by the member using the techniques of knitting, crocheting, embroidery and crewel, counted cross stitch, needlepoint, hardanger, handquilting, weaving, appliqué, latchhook, tatting, other.
- Consumer Product Analysis: Comparison and evaluation of materials, supplies, or accessories used for a needle arts technique.
- Historical/Cultural Study: Story, poster, or display about a needle arts heirloom from your family or local history museum. Exhibit must include information about how item should be preserved.

✿ PERFORMING ARTS

Performing Arts - Grades 9+

Performing Arts - Grades 6-8

Performing Arts - Grades 3-5

Performing Arts - Duet/Ensemble (not eligible for State Fair)

Performing Arts - Cloverbud

Exhibit Requirements:

- Exhibit can be either a performance or an exhibit that shows a member's involvement or interest in the performing arts.
- To be eligible for State Fair, the member must be able to discuss the process of selecting, planning, performing and reflection on their project work.
- If the exhibit is an actual performance, the performance cannot last longer than 6 minutes.

Exhibit Suggestions:

- Poster or display about your involvement or interest in the performing arts.
- A puppet and script made and created by member.
- Create and perform a short story, show, music selection, etc., and include a write-up about it.
- A journal or scrapbook (with written statements) of current performing arts experiences.
- An educational display of some aspect of music, drama, or performing.

✿ PETS

Pets - Grades 9+

Pets - Grades 6-8

Pets - Grades 3-5

Pets - Exhibit with Pet

Pets - Cloverbud

Note: This project is for pets not mentioned elsewhere. Please see the Cat and Dog projects for those respective animals. Please also note that this project is different from those listed in the Animal Science section.

Requirements:

- All pets must be domesticated.

- Animals that were raised as a part of another project may not be exhibited.
- A pet may be entered with the exhibit. The exhibitor must maintain control of the pet at all times, and the pet must be taken home after conference judging. If selected, the pet does not go to the State Fair.

Exhibit Suggestions:

- Educational display explaining pet care, health, nutritional needs, etc.; exhibit must include a photograph of 4-H'er with their pet.
- Pet related exhibit, i.e. photo album, history of species display, animal care display.

✿ PHOTOGRAPHY

PHOTOGRAPHY-Digital/Film

Requirements for BOTH Elements of Photography and Photo Manipulation:

- All photos exhibited must have been taken/produced/enhanced by the exhibitor during the current year
- The exhibitor's name, club, county and exhibit class should be clearly printed on the back of the exhibit.
- Unaltered 4"x6" photos must be attached to the back of any exhibit in the "Photo Manipulation" category.
- For safety, no picture frame or glass is allowed
- Exhibits with multiple photos should use 4"x6" prints
- Enlarged photos should be 5"x7" or 8"x10"
- Photos should be mounted on mat board or poster board using neutral colors (white, tan, grey or black). Do not use construction paper or colored paper.
- Use 14 x 22" board for 5 or more photos in an exhibit. Cut smaller boards for enlargements
- Exhibits should reflect the appropriate size for the item designed, e.g. the photos used for an ornament, a calendar, a poster, or brochure would require different sized photographs.

Photo/Video Release Form - It is important to learn to use this form when including any person in your photograph or in your video that is NOT in 4-H. This verifies that the subject has agreed to have their photograph taken or be in your video. Keep this signed form in a file. Here is a link to the Talent release form in English,

https://policy.umn.edu/sites/policy.umn.edu/files/contracts/ogc-sc211_0.docx, and Spanish, https://university-relations.umn.edu/sites/university-relations.umn.edu/files/talent_release_spanish.docx

Elements of Photography

This exhibit will focus on what makes a good photograph. **ONLY** overall image corrections are allowed including cropping, exposure correction, color saturation, contrast, sharpening, black and white, sepia conversion.

Elements of Photography - Grades 9+

Elements of Photography - Grades 6-8

Elements of Photography - Grades 3-5

Equipment:

Use any device capable of capturing a photographic image to be printed: digital or film camera, cell phone, tablet or drone may be used. Drone operator must meet age requirements for use of a drone. Please note: Supervision of the drone operator is important until they understand not only how to use a drone but also understand the etiquette and rules for using the drone.

Exhibit Suggestions:

1. Photo Story:
 - Show a town's history or a family history. This could include photos of historic buildings, old photos copied from the historical society or library, family or individual portraits, etc.
 - Develop a documentary of another of yours or a friend's 4-H project or of your 4-H club's community service project
 - Document environmental issues such as the plight of pollinators, pollution, soil erosion, or the steps taken to improve the environment
 - Present a day in the life of – farm or city youth, a local professional person such as a school nurse or firefighter, law enforcement officer, or other interesting personality
 - Exhibit a series of photos on how to make or do something
2. Common Theme or Subject:
 - Display a series of 3 to 7 photos of a common subject such as people, buildings, landscapes, animals, seasons, action, nature, weather, close-ups, etc.
3. Photographic Elements
 - Display a series of 5 to 7 photos that illustrate some photographic element such as composition, lighting, shutter speeds depth of field, color, contrast, cropping, etc.
4. Panorama
 - Show a single image created in camera or a triptych (set of 3 photos intended to be used together) of several images created by moving the camera

Photo Manipulation

Entries in this category must involve editing with computer software such as Photoshop, Lightroom, iPhoto, Picasa, Gimp, Pick Monkey, Pixi, Microsoft Publisher, etc.

Equipment:

Use any device capable of capturing a photographic image to be printed: digital or film camera, cell phone, tablet or drone. Drone operator must meet age requirements for use of a drone. A computer or tablet is required for photo manipulation. Supervision of the drone operator is important until they understand not only how to use a drone but also understand the etiquette and rules for using the drone.

Exhibit Suggestions:

1. Photo Series
 - Make a series of 5 to 7 photos that illustrate a common theme such as environmental issues, plight of pollinators, how to do something, etc. Photos in this category must involve digital editing
2. Enlarged Photo:

- Show a 5"x7" or 8"x10" print that has been digitally enhanced and illustrates software skills. An unaltered 4 x6" print must be attached to the back of the exhibit.
3. Publications:
 - Show calendars, brochures, posters that are created using computer software
 4. Photo Novelties:
 - Display mugs, puzzles, blankets, or other media on which photos have been printed
 5. Slide Show:
 - Make a compilation of photos with titles, voice-over or music background. For judging, exhibitor can show project on 14 x 22" poster board, computer or tablet.

✿ PLANT AND SOIL SCIENCE

See "Agronomy" section

✿ POTATOES

See "Fruit, Vegetable and Herb Gardening" section

✿ QUILTING

Quilting - Grades 9+

Quilting - Grades 6-8

Quilting - Grades 3-5

Quilting - Cloverbud

Requirement:

- Each Item should include information listing: pattern book & name, fiber content of fabric & batting, and care instructions. If not quilted or hand tied by the 4-H'er, state who tied or hand/machine quilted the final project. (Note: depending on skill level of 4-H'er, someone else may do the final quilting)."
- Optional: A poster or brief booklet that shows the process used in constructing the quilting project. It may include pictures.
- Item may be either machine quilted, hand quilted, or hand tied.

Exhibit Suggestions:

- A quilted item, any finishing technique acceptable.
- Repair of an old quilt.
- A display showing the history of quilting, fabrics and patterns used in quilting, or a topic of your choice.

✿ SAFETY

Safety - Grades 9+

Safety - Grades 6-8

Safety - Grades 3-5

Exhibit Suggestions:

- Explore a safety issue of your choice. Ideas include traffic safety, home safety, farm safety, community safety, fire prevention, and first aid kit. Include an item for display representative of project activity.
- Prepare a First Aid Kit and be able to explain the reasons for the items you included.
- Exhibit may be display, binder, poster, etc.

✿ SCRAPBOOKING

Scrapbooking - Grades 9+

Scrapbooking - Grades 6-8

Scrapbooking - Grades 3-5

Note: No State Fair trips are offered in these classes.

Exhibit Suggestions:

- A book or display on scrapbooking

✿ SELF-DETERMINED

Self-Determined - Grades 9+

Self-Determined - Grades 6-8

Self-Determined - Grades 3-5

Requirement:

- This Division is intended for an exhibit that doesn't fit in any other project area. This is not a "catch-all" category but rather intentional self-directed learning.
- A team may consist of not more than three (3) individuals from the same county.
- To be eligible for State Fair, the member(s) must be able to discuss the process of selection, planning and management of a self-determined learning experience.

Exhibit Suggestions:

- Poster, display, or notebook showing the process of doing the activity/project
- Display of finished work

✿ SHOOTING SPORTS / WILDLIFE MANAGEMENT

Shooting Sports/Wildlife Mgmt - Grades 9+

Shooting Sports/Wildlife Mgmt - Grades 6-8

Shooting Sports/Wildlife Mgmt - Grades 3-5

Requirements:

- Exhibit may not exceed 12" deep x 24" wide x 36" high, except that a gun, bow and arrow, or taxidermy item may be included in a display and will not be considered in the calculation of dimensions.
- MN and 4-H regulations for handling and storing firearms must be followed.
- No explosive materials are allowed. Arrows must be secured in such a manner so as to prevent their points or edges from being a hazard. Only sporting firearms and bows will be exhibited, displayed or demonstrated.

Exhibit Suggestions:

- Safety techniques applied to shooting activities (e.g., range commands and range safety, eye and ear protection, cleaning a firearm, dressing for safety-first aid, survival skills, etc.).
- Shooting Skills (e.g., basic safety rules, basic parts and functions of each piece of equipment, care and maintenance, accessories, position, etc.).
- Display illustrating key field identification features of a group of game animals (e.g., distinguishing various species of

puddle ducks, differences among five look-alike species, of upland game birds, etc.).

- Leadership skills learned in your shooting sports club.
- History and nomenclature of trapping, hunting, and firearms.
- Sportsmanship: Ethical behavior and responsibility, effects of values to wildlife of modern game laws and regulations.

✿ SHOP

Shop - Grades 9+

Shop - Grades 6-8

Shop - Grades 3-5

Requirements:

- Exhibit must not take up more than 20 square feet of floor space.
- Attach a card to all exhibits describing construction materials, unusual joinery finishing techniques, and total cost.

Exhibit Suggestions:

- Article made of wood or metal
- Wooden or metal article repaired, finished, or refinished.
- Display on properties, uses, or processing of wood.

✿ SMALL ENGINES

Small Engines - Grades 9+

Small Engines - Grades 6-8

Small Engines - Grades 3-5

Exhibit Suggestions:

- Small engine that has been reconditioned or repaired.
- A device constructed by a member utilizing a small engine.
- Display on the parts of an engine, etc.
- An educational display of some aspect of small engine use, care, reconditioning, etc.

✿ TRACTOR

Tractor - Grades 9+

Tractor - Grades 6-8

Tractor - Grades 3-5

Requirements:

- Check space requirements for large exhibits with staff. Large exhibits may be displayed outdoors
- Fuel must be removed from exhibits for display.

Exhibit suggestions:

- A poster, video, display, notebook, representing your project learning.
- Restored, reconditioned, rebuilt tractor.
- Any constructed article, charts, or devices to assist member with the tractor project. Examples include articles about safety on the farm, maintenance, hitches, PTO, instrumental panels and controls, tractor safety on highways, history, use, purchasing decisions, establishing

a custom business with your field or lawn tractor, material prepared to train others, etc.

✿ **VEGETABLE GARDENING**

See "Fruit, Vegetable and Herb Gardening" section

✿ **VETERINARY SCIENCE**

Veterinary Science - Grades 9+

Veterinary Science - Grades 6-8

Veterinary Science - Grades 3-5

Requirements:

- Exhibit may include models, diagrams, actual items and/or written articles.

Exhibit Suggestions:

- Diagram of your favorite animal with anatomy
- Display or binder on diseases of animals, ringworm, heartworm, displaced abomasum, hip dysphasia, scours, etc.

✿ **VIDEO / FILMMAKING**

Video/Filmmaking - Grades 9+

Video/Filmmaking - Grades 6-8

Video/Filmmaking - Grades 3-5

Video/Filmmaking – Production Team (2-3 members per team/can come from different schools and/or grades)

Equipment: Any electronic device capable of capturing a video image; video camera, digital camera, DSLR, time lapse camera or trail camera, cellphone, tablet, Go Pro or drone with attached camera (operator must meet age requirements to use a drone).

Requirements:

- All video/filmmaking exhibits must be made by the exhibitor OR By a production team of which the exhibitor must be a member
- The exhibitor's name, grade, and club must be clearly printed on all exhibit pieces. It is recommended that the video/filmmaking exhibit be 3-5 minutes and no longer than 10 minutes.
- All video/film footage exhibited must have been made/created DURING THE CURRENT 4-H YEAR. When appropriate, (i.e. historical sequences) older video clips can be used, otherwise video content must have been taken in the current 4-H year.
- The member should provide the video file even if sending it electronically.
- Video/film must be presented on DVD, USB, flash drive or data CD
- Video/film needs to be in presentation form, including a title and credits
- It is encouraged that when developing a 4-H video/filmmaking exhibit, members will develop skills beyond the classroom
- The video/film must be original material, portions from other sources must be documented and have a copyright release, including music. Any video/film exhibit, which appears to contain copyrighted material, including music, will not be

publicly displayed unless the exhibitor has written permission from the producer to use the material in the video/film.

- A computer must be brought for viewing the video/film during the conference judging, otherwise other arrangements need to be made in advance with the 4-H staff
- Video/film must be playable on Windows, use file format including .WMV, .FLV and .MPEG, .AVI, .MOV, AVCHD, .MPEG-1, .MEG-4, as well as a playable DVD.
- Videos can also be delivered via YouTube, Vimeo, Frame.io or similar online based presentation sites.

Note: This is not a slideshow (see Manipulated Photography for slideshow)

Photo/Video Release form-it is important to learn to use this form when including any person in your photograph or in your video that is NOT in 4-H. This verifies that the subject has agreed to have their photograph taken or be in your video. Keep this signed form in a file. Here is a link to the Talent release form in [English](https://policy.umn.edu/sites/policy.umn.edu/files/contracts/ogc-sc211_0.docx), https://policy.umn.edu/sites/policy.umn.edu/files/contracts/ogc-sc211_0.docx, and Spanish, https://university-relations.umn.edu/sites/university-relations.umn.edu/files/talent_release_spanish.docx

Exhibit Ideas:

- Showcase various video/film techniques
- A selected subject. Include a short storyboard or outline
- A poster that illustrates how a video/film camera works, or how to care for video/film equipment, illustration of computer video/film creation, etc.
- A video/film made by blending computer technology and traditional camera created video/film.
- A video/film using data from trail camera or time lapse camera (stop action video) or drone with attached camera (see note related to drone use).
- A video/film using Claymation or stop action
- Document environmental issues such as the plight of pollinators, pollution, soil erosion, or the steps taken to improve the environment

✿ **WATER / WETLANDS**

Water/Wetlands - Grades 9+

Water/Wetlands - Grades 6-8

Water/Wetlands - Grades 3-5

Exhibit Suggestions:

- Display showing the five unique physical properties of water; the hydrologic or water cycle; the quantities and uses made of water by families, municipalities, industries, animals, and plants;
- Display on water quality or management--pollution, conservation, water quality standards, etc.

🌿 **WILDLIFE BIOLOGY**

Wildlife/Biology - Grades 9+

Wildlife/Biology - Grades 6-8

Wildlife/Biology - Grades 3-5

Exhibit Suggestions:

- Display showing the life cycle of your favorite wild animal.
- Birdhouse, birdfeeder, or homemade bird book of local birds.
- An animal book of wild animals of Minnesota--describe habitat, food, and shelter needs.
- A wildlife management plan--show practices related to land use and forest management for wildlife.
- Basic concepts of Wildlife Management (waterfowl wingboards, birdhouse trails, game food habits, game animal habitat requirements, history of game management, etc.).

🌿 **YOUTH LEADERSHIP**

Youth Leadership - Grades 9+

Youth Leadership - Grades 6-8

Youth Leadership - Grades 3-5

Purpose:

Youth Leadership is a project area that requires the member to discover their skills and then develop those skills and share them with others. This might happen individually or with a group.

Exhibit Suggestions and Guidelines:

- Taking charge, leading a service project, and sharing the steps from beginning to end would be one example of a youth leadership project. Some ways to present your work would be (but are not limited to): three sided display boards, scrapbooks, and posters.
- Other ideas include:
 - A written narrative of your leadership role in your club or county including: holding an elected office, committee work, camp counselor, part of event management, project organizer, on-going yearly responsibilities in a planned club program, fundraising, etc.
 - A lesson plan for an activity or a project meeting that you have planned and presented. Include teaching outline, objectives, information to be presented, techniques to be used, etc.