

JUNIOR DIVISION

Dept. 16 – Natural Science

Superintendent: Bill Vanevenhoven, 532-5550

4-H Project No.: 601, 602, 605A, 605B, 605C, 606, 611

612A, 612B, 612C, 613, 614, 615, 621, 622, 623

631, 632, 633, 634, 635, 636, 637, 641

645, 651, 681, 682, 683

Entry Closing Date June 15th
Arrival Tuesday, 12:30 pm - 5:30 pm
Judging (Face-to-face) Tuesday, 1 pm - 6 pm
Release Sunday, 6 pm

RULES

1. Exhibitor must be enrolled in the Natural Science project or doing similar work in another youth organization to exhibit/show.
2. All articles must be the result of work this year and must be made by the exhibitor.
3. All posters must be 14" x 22" and displays no larger than 36" x 36"
4. No bird nests.
5. Only one entry per lot.

PREMIUMS	1st	2nd	3rd	4th
	2.00	1.75	1.50	1.25

CLASS A – BIRDS

Lot No.

1. Drawings or cut-outs of at least 10 birds, giving the name, food habits, migratory habits, habitat and nesting habits of each
2. Photographs of 4 or more bird nests, identify type, place located and date found
3. A display of at least 6 food items for birds (commercial bird foods or plants and shrubs that provide food), identify each item and list which birds eat each type of food
4. Display and identify the body parts of a bird and their functions
5. Compare and contrast at least 4 different birds. Show how their differences are necessary for how and where they live
6. Bird house which you constructed, label type of bird intended for and reason for the house design.
7. Any other exhibit not listed above

CLASS B – SPORTFISHING

Lot No.

1. Poster on the parts of a fish
2. Poster display of at least 5 types of fish found in Northeast Wisconsin
3. Tackle box with inventory check list
4. Poster showing differences between bobber and bottom fishing
5. Map of favorite fishing spot
6. Jig display – different head styles and materials, at least 5 types
7. Fish senses poster, smell, sight, taste, hearing, compare 4 or more fish
8. Poster on cooking fish
9. Poster on parts of a rod and reel
10. Poster identifying parts of a fishing reel
11. Display of 3 artificial lures or flies you have made
12. Poster on at least 4 types of insects that fish like
13. Create a fishing-related game
14. Poster on fishing boat safety including a safety checklist
15. Any other item not listed above

CLASS C – ENTOMOLOGY

RULES

1. Insects must be properly killed, mounted and identified.
2. Identification must include common name, date and location insect was found, and the insect's stage of development if not an adult (nymph, egg, larvae, adult, etc.)

Lot No.

1. 10 or more specimens of insects (see mounting and identification guidelines above)
2. Scrapbook: 10 or more species of insects photograph or drawing of each; properly identified, describe habitat and environment; and describe eating habits and food
3. A collection of trees or plant parts showing 4 or more different types of injury which insects have caused and a report on the insects causing the damage
4. A collection, diagram, or photograph of 4 or more different kinds of cocoons or chrysalises and the emerged moths or butterflies
5. Educational poster or exhibit explaining the value of insects
6. Educational poster or exhibit explaining the life cycle of insects
7. Educational poster or exhibit of an insect control activity
8. Display on entomology careers
9. Any other exhibit not listed above

CLASS D – FORESTRY

Lot No.

1. Exhibit of mounted leaves, properly labeled, 15 or more kinds from trees grown in Wisconsin
2. Collection of tree seeds from at least 15 trees, properly labeled
3. Collection of at least 6 wood samples mounted and properly labeled
4. Scrapbook showing map of woodlot, planting plans, pictures, etc.
5. Collection of at least 4 wood samples showing results wrought by disease, insects, etc., labeled and explained
6. Poster showing one of the following: A) proper tree planting methods B) methods of seed dispersal C) uses of different types of wood D) types of tree shapes E) parts of a tree, including cross section of trunk label zones in cross section, posters should be labeled properly
7. Exhibit of a plant press made by exhibitor
8. Poster or exhibit showing a forest harvesting method
9. Poster or booklet tracing the life of a tree from seed to finished product
10. Any other exhibit not listed above

CLASS E – SHOOTING SPORTS

(Bows, Arrows, Firearms, Air Guns, and Live Ammunition are not permitted as part of the Exhibit. Please use a notebook with photos or other display for these items.)

Lot No.

1. Educational poster on the parts of a bow and arrow
2. Educational poster or display on archery equipment
3. Poster display identifying the parts of a firearm
4. Poster on the proper care and maintenance of a gun
5. Poster illustrating and briefly explaining proper sight alignment for (select one): archery, air rifle, air pistol, 0.22 cal. Rifle, or shotgun trap gun.
6. Homemade survival kit assembled by member with a brief explanation of each item's potential use. Must include 8 items. Display should be in a container (example: shoe box or ice cream bucket)
7. Exhibit or scrapbook of a detailed accounting of your participation and progress in your shooting sports project. May include logs, diary, photographs, documented targets, graphical presentation of shooting scores or other.
8. Scrapbook or essay on a hunter's diary of his/her own hunt (hunt to have been experienced between the interim of the previous fair and the current county fair).
9. Exhibit or report of competition experience (competition to have been experienced between the interim of the previous fair and the current county fair).
10. Homemade hip or belt quiver
11. Homemade ground quiver
12. Homemade armguard, finger tab or glove
13. Homemade arrow
14. Homemade bow case (fabric or wood)
15. Target holder made from PVC pipe or from wood

16. Homemade shell pouch
17. Homemade rifle sling
18. Homemade kneeling roll
19. Homemade shooting bench
20. Homemade pellet block or stand
21. Homemade gun case (fabric or wood)
22. Any other exhibit not listed above

CLASS F – INTRO TO NATURE SPACE

RULES

1. All entries must be labeled identifying where your study took place (i.e. backyard, woodland, park, wetland, field, etc.).

Lot No.

1. A map and inventory of the plants and animals found in nature space, the inventory can be done creatively using drawings, snapshots, listings, etc.
2. An exhibit showing the seasonal weather changes in nature space
3. A poster or exhibit showing the food chains found in nature space (be sure to use only the plants and animals that were actually observed in the nature space)
4. Any display or collection of at least 4 specimens found within nature space, all specimens must be properly mounted and labeled including common names, date and location of collection
5. A poster of at least 4 animals and/or plants found within the nature space.
6. Any other exhibit not listed above

CLASS G – MAPLE SYRUP

Lot No.

1. An educational display that explains the equipment used for making maple syrup
2. An educational display with pictures that explains the various steps to making maple syrup
3. 1 pint of maple syrup (Jars will be opened for tasting, then refrigerated, or photographed and taken home)
4. Any other exhibit not listed above

CLASS H– CROSS-COUNTRY SKIING, DOWNHILL SKIING, & DOG SLEDDING

Lot No.

1. Poster or display on techniques or safety rules
2. Poster or display on proper care of equipment, such as waxing, storage, repairing, etc.
3. Scrapbook showing your activities in cross-country skiing, downhill skiing or dog sledding
4. Poster or display on equipment selection
5. Poster or display relating to animal selection and/or care of animals for dog sledding.
6. Any other exhibit not listed above

CLASS I – WILDFLOWERS

Lot No.

1. Collection of 6 wild flowers, properly pressed, mounted and labeled
2. Exhibit of a picture or actual pressed blossom of a flower with all flower parts properly labeled
3. Chart or diagram showing the life cycle of a plant, use pressed specimens to show each stage of development
4. Collection of 6 kinds of wild flower seeds mounted, showing various adaptations to dispersal by wind, water, birds and mammals
5. Collection of 4 native ferns properly pressed, mounted and labeled
6. Plan of your wild flower garden or preserve
7. Any other exhibit not listed above

CLASS J – WILDLIFE

Lot No.

1. Exhibit showing 6 game animals found with notes on their feeding habits and habitat requirements
2. Exhibit consisting of a chart of pictures of 6 fur-bearing mammals with a write-up for each including habits.
3. Plaster casts of 4 different animal tracks, mounted on a firm surface
4. Poster of 10 wildlife tracks, labeled. Tracks can be pictures, stamps, drawings, etc.
5. Photo display of wild animals taken during a "camera hunt" (minimum of 4 photos)
6. Poster or display of any phase of sportsmanship or hunting ethics
7. Exhibit of camouflage examples in nature
8. Any finished clean taxidermy article made by member
9. Any other exhibit not listed above

CLASS K – OTHER NATURAL SCIENCES

Lot No.

1. Any original display related to other areas in the natural sciences
2. Any original display relating to weather
3. Any other exhibit not listed above

CLASS L – RECYCLING

Lot No.

1. A labeled display of nature's recyclers (decomposers) using drawings, pictures or photographs.
2. An exhibit showing natural cycles (water nutrient, etc.)
3. An exhibit showing renewable and nonrenewable resources
4. An exhibit showing the daily, weekly or annual amount of waste generated by an individual, family, club, state or county
5. A display on recycling of products
6. A farm or home recycling exhibit
7. An exhibit on composting
8. An exhibit showing how recycling fits into natural cycles
9. An exhibit showing how to make animal bedding from scrap paper or the pros and cons of animal bedding made from paper
10. A model landfill or incinerator with an explanation of how it works
11. An exhibit showing the pros and cons of land filling, incineration, and recycling
12. An exhibit showing environmentally smart shopping
13. A poster, series of labeled photographs, scrapbook, or journal documenting your recycling, waste reduction or recycling education efforts
14. Display of equipment and explanation of the process of making your own paper from old paper; including sample of the paper you made
15. An exhibit showing new products that are currently being made from recycled material – show the initial product, intermediate steps and new product
16. A creative exhibit showing a new product (with a new use) invented from an old product
17. Poster or exhibit on benefits of recycling
18. Exhibit of soil building with a description of how it works (use aquarium, terrarium or large glass jar)
19. Written radio script or commercial on recycling
20. Any other exhibit not listed above

CLASS M – CANOEING AND BOATING

Lot No.

1. Exhibit on care and maintenance of equipment
2. Exhibit on water safety
3. Exhibit of a trip
4. Exhibit on paddling/oaring techniques
5. Exhibit on water conditions
6. Homemade paddles/oars
7. Any other exhibit not listed above

CLASS N – BEEKEEPING

Lot No.

1. One cake of bees wax containing not less than ¼ pound, must be solid and contain no cracks
2. Extracted honey, 1 pound jar
3. Beekeeping project, 1 poster
4. Beeswax candle
5. Any other exhibit not listed above

CLASS O – BACKPACKING, HIKING, BIKING AND CAMPING

Lot No.

1. Poster or display or scrapbook on how to select basic backpacking, hiking, biking or camping equipment
2. Poster or display showing selection of a suitable campsite
3. Poster, display or scrapbook on fire building (fire safety, types of fire and uses, how to start, fire ingredients, etc.)
4. Scrapbook of your backpacking, hiking, biking or camping activities
5. Poster or display of proper clothing for a backpacking, hiking, biking or camping trip
6. Poster or display of food to pack for a backpacking, hiking, biking or camping trip
7. Poster or display of safety equipment to bring on a trip
8. Poster or display that shows ways to preserve the environment during a trip
9. Poster or display that describes how to plan for a safe and fun backpacking, hiking, biking or camping activities
10. Any other exhibit not listed above