

## DEPARTMENT 16-J JUNIOR FAIR NATURAL SCIENCES

### Entry Requirements:

1. Limited to exhibitors enrolled in the Adventures Projects; Backpacking & Hiking Project, Bicycling Project; Birds Project; Canoeing Project; Conservation Project; Entomology (insects) Project, Environmental Education Project; Exploring Your Environment Project, Fishing Project, Forestry Project, Geology Project; Recycling Project; Water Project; Wildflowers Project; Wildlife Project; Winter Travel Project; Air Pistol Project; Air Rifle Project; Archery Project; Hunting Project; Muzzleloading Project; Pistol Project; Rifle Project; or Shotgun Project.
2. All posters must be 14 x 22-inches in size, the only exception is if stated otherwise.
3. Exhibits must be the result of work done by the exhibitor in the current project year.
4. Exhibits must have an attached 3x5 card explaining details of exhibit.

	Danish Judging	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
<b>Class A</b>	<b>Exhibitor Grades 3-6</b>	\$2.00	\$1.75	\$1.50	\$1.25
<b>Class B</b>	<b>Exhibitor Grades 7-9</b>	\$2.50	\$2.25	\$2.00	\$1.75
<b>Class C</b>	<b>Exhibitor Grades 10 &amp; over</b>	\$3.00	\$2.75	\$2.50	\$2.25

### Bees and Honey

1. Limited to exhibitors enrolled in the Exploring Your Environment Project or Entomology (insects) project.

#### Lots

5 kinds of honey

Bees and Honey Project, any other

Body parts of bee and function

Comb of honey, three standard sections, wood frame - explain preparation

Extracted honey, 2 pound jar, with description of procedures used to process honey

How honey is harvested from the hive, describe steps in processing

### Birds (No active bird nests allowed)

1. Limited to exhibitors enrolled in the Exploring Your Environment Project or Birds Project

#### Lots

Bird nest photographs or diagrams - include type, location, date found

Bird Project, any other

Bird watchers log of birds observed over 3 months - include date, time, location and species

Exhibit on ecology of birds such as migration, nesting, life habits or one species

Photographs of 15 birds

Single unit bird house for a wren, bluebird, tree swallow or martin

## **Entomology**

1. Limited to exhibitors enrolled in Exploring Your Environment or Entomology (insects) project.

### **Lots**

- 10 or more insects, properly identified - Collection
- 6 beneficial insects and 6 pest insects
- Butterfly or caterpillar garden
- Entomology Project, any other
- Life cycle of two different insects - Display
- New or cumulative collection of 20 or more insect, properly identified with date of collection
- Spider web display
- Structural parts of insect and function

## **Fishing**

1. Limited to exhibitors enrolled in the Exploring Your Environment Project or Fishing Project.

### **Lots**

- 5 different species of fish common to Wisconsin - Poster
- 6 lures or baits with a description of use - Display
- Bait or lure, made by exhibitor
- Boat, water or ice safety, or first aid
- Different types of fishing knots
- Fish ecology or conservation
- Fishing Project, any other
- Fishing tackle box with inventory checklist explaining components' use
- Journal or diary of 5 or more fishing trips you took
- Parts of a fish - Poster

## **Forestry**

1. Limited to exhibitors enrolled in the Exploring Your Environment or Forestry project.

### **Lots**

- 10 - 15 leaves of important trees, no fruit trees - properly identified - Collection
- 10 tree seeds, properly identified - Collection
- 4 photos of a tree throughout the seasons with descriptions
- 8 different trees and bi-products of each
- Bark types, properly identified - Collection
- Cross-sections of tree with captions
- Forestry Project, any other
- Map of local or regional forest
- Mount of 5 lumber or wood specimens - properly identified
- Pint of homemade maple syrup
- Timber stand improvement project
- Types and uses of logging equipment

## **Geology**

1. Limited to exhibitors enrolled in the Exploring Your Environment Project or Geology Project.

### **Lots**

- 3 or more different types of fossils
- 8 different collected, identified, polished rocks
- 8 different collected, identified, unpolished rocks
- Geology Project, any other
- Rock and geologic formations
- Wisconsin's land forms and glacial history

## **Other Natural Sciences Exhibits**

1. Limited to exhibitors enrolled in Natural Science Project Codes not listed in another lot.  
Natural Science, any other

## **Recycling, and Energy and Water Conservation**

1. Limited to exhibitors enrolled in the Exploring Your Environment Project, Recycling Project; Home Energy Project; Water Project; or Conservation Project.

### **Lots**

- Exhibit made from recycled material
- How you could conserve energy or water
- Recycling at home or farm - waste reduction, recycling, composting, etc.
- Recycling, Energy, and Water Conservation Project, any other
- Solar energy
- Way you found to save energy
- Wind energy

## **Shooting Sports**

1. Limited to exhibitors enrolled in the Archery Project; Air Pistol Project; Rifle Project; Shooting Sports; Hunting Project; Shotgun Project; Muzzle loading Project; Air Rifle Project; or Wildlife Project.

### **Lots**

- 10 different shells. Showing caliber or gauge and explaining what each might be used for  
-Spent ammunition only - Collection
- 4 pictures, mounted, showing member involved in shooting sports activity
- Parts of a gun or bow - Poster
- Phase of the .22 rifle project - Educational Poster
- Phase of the air rifle project - Educational Poster
- Phase of the archery project - Educational Poster
- Shooting Sports Project, any other
- Shooting sports safety - Poster
- Target from a youth shoot showing exhibitors results - Poster

**Silent Sports** Canoeing, cross country skiing, kayaking, sailing, snowboarding, boating, biking, backpacking, camping, hiking, snowshoeing, etc.

1. Limited to exhibitors enrolled in the Exploring Your Environment Project, Adventure Project, Backpacking & Hiking Project, Bicycling Project, Canoeing Project or Winter Travel Project.

**Lots**

Equipment needed for a silent sporting trip

First-aid kit for adventure activities, labeled with its functions

Map with mileage and planned stops for adventure or sporting trip

Nutritionally sound menu for adventure or sporting trip

Photo display record of hiking, sporting or camping trip - include captions

Selection - care of clothing needed for silent sport

Silent sporting gear item made by exhibitor

Silent Sports Project, any other

Silent sport's techniques and safety

**Wildflowers**

1. Limited to exhibitors enrolled in the Exploring Your Environment or Wildflowers Project.
2. DO NOT bring protected wildflowers.

**Lots**

10 wild plants important to wildlife

Drawing of 10 animals tracks native to Wisconsin - labeled

Feed station or wild life shelter built by exhibitor

Other exhibit relating to the Wildlife Project

Photo series of 5 or more from wildlife camera - include date, location, and species

Photos of 5 game animals or birds - name and describe habitat requirements

Work of taxidermy, tapping or tanning

**Wildlife**

1. Limited to exhibitors enrolled in the Exploring Your Environment Project, Wildlife Project; or Hunting Project.

**Lots**

10-15 wildflowers, ferns or vines, pressed, mounted and labeled

5 edible or medicinal wildflowers, pressed, mounted and labeled - Collection

Artistic arrangement of pressed wildflowers

Parts of a flower or life cycle of plant

Record of all wildflowers transplanted or propagated

Wildflower Project, any other