

DEPARTMENT 16 J **NATURAL SCIENCES**

- PLEASE NOTE -

THIS IS A CONFERENCE JUDGED DEPARTMENT ON MONDAY

All exhibitors are required to follow Junior Division Rules

No entries accepted after entry deadline

All collections must be mounted and identified.

Reminders:

- **All posters MUST be on 14" x 22" tag board**
- **All posters Must have a hole punched in the 2 top corners for hanging at the fair**
- **ALL Scrapbooks Must Have At Least 10 Pages**

Class A --- Trees

Premiums: \$2.00 \$1.75 \$1.50 \$1.25

Grades determined as of Jan. 1st of this year

Grades 3 - 7

Lots:

1. Exhibit of 10 leaves
2. Exhibit of 5 specimens of wood (cross and longitudinal sections showing wood structures)
3. Collection of seeds of 10 common useful trees
4. Leaf prints of at least 10 trees
5. Any Other Exhibit relating to this class, not listed

Grades 8 and Up

6. Exhibit of 20 tree leaves
7. Exhibit of 10 specimens of wood (cross and longitudinal sections showing wood structures)
8. Collection of seeds of 15 common useful trees
9. Exhibit of 2 articles of homemade construction used by foresters
1. Exhibit of maps showing woodland survey and study
11. Exhibit of "before and after" pictures or drawings or models showing work done that could not be brought for exhibit
12. Jar (½ pint) of homemade maple syrup, on 3"x5" card write out process
13. Poster illustrating possible career(s) in forestry
14. Any Other Exhibit relating to this class, not listed

Class B --- Study of Insects (Entomology)

Premiums: \$2.00 \$1.75 \$1.50 \$1.25

Lots:

1. Collection of at least 12 species of insects for Grades 3 - 5
2. Collection of at least 24 species of insects for Grades 6 - 8
3. Collection of at least 36 species of insects for Grades 9 and up
4. A collection contrasting differences between 10 insects found near lakes, rivers and ponds and 10 insects found in a hayfield
5. Collection of 4 or more cocoons or chrysalises properly identified
6. Collection of the right wing of 25 different large insects, properly identified
7. Collection of insects from 8 different Orders, properly identified and displayed by Order
8. Any Other Exhibit relating to this class, NOT already listed

Class C --- Bees & Honey

Lots:

1. Exhibit of comb honey
2. Exhibit a jar of extracted honey
3. Any Other Exhibit relating to this class, not listed

Class D --- Birds

Grades determined as of Jan. 1st of this year

Grades 3 – 6

Lots:

1. Notebook exhibit of at least 10 pictures or drawings of birds seen and identified by you. Identify each bird and list food habits, migratory habits, habitat and nesting habits

Grade 7 and up

2. Notebook exhibit of at least 15 pictures or drawings of birds seen and identified by you. Identify each bird and list food habits, migratory habits, habitat and nesting habits
3. A homemade bird feeder with some bird feed in it. Identify for what type of birds on a 3"x5" card attached to feeder. If used be sure feeder is clean.
4. A homemade birdhouse. Identify for what type of bird, where placed, and if used, what bird you attracted. Information on a 3"x5" card attached to birdhouse. Be sure house is clean

5. Pictures, drawings or photos of 5 bird nests, identify type of bird, where found and construction materials
6. A poster display of a study of a bird group (water birds, game birds, birds of prey, birds of a forest, songbirds, winter birds).
7. Poster illustrating possible career(s) with birds
8. Any Other Exhibit relating to this class, NOT already listed

Class E --- Fishing

Lots:

1. A display of 10 mounted drawings or cut out pictures of the various fishes found in your community, properly labeled with type of area found in. Photos acceptable
2. Collection of 10 aquatic insects mounted and labeled
3. A journal including at least 4 fishing trips you have taken
4. Poster of 5 fishing knots or 5 boating knots (made out of macramé) and explanation of how each is tied and when and where you would use each knot
5. An exhibit of 3 different rods and 5 different reels and 5 different lures (no live bait) with an explanation of where you would use them and what type of fish you would catch with them
6. Display of 2 homemade flies and 1 plug, with explanation of the purpose of each
7. Display related to the project but limited to a poster, scrapbook or other written material
8. Poster illustrating possible career(s) in fish management
9. Any Other Exhibit relating to this class, not listed

Class F --- Wildflowers

Endangered Species May NOT Be Exhibited

Grades determined as of Jan. 1st of this year

Grades 3 – 5

Lots:

1. Collect, press, identify, label and mount 10 wildflowers
2. Collect a single blossom of a flower, press and label all of the parts.
3. Exhibit 10 pages of a field notebook
4. Homemade plant press; include 3"x5" card explaining how it's used.
5. A photo display poster of 3 endangered species labeled and brief statement as to why it is endangered.
6. Any Other Exhibit relating to this class, not listed

Grades 6 - 8

11. Collect, press, identify, label and mount 20 wildflowers.
12. Chart or diagram showing the life cycle of a plant
13. Collect, mount and press the leaves of plants showing leaf arrangement, types of leaves, leaf margins.
14. Exhibit 15 pages of a field notebook
15. Poster display of at least 10 wildflower seeds - identified.
16. A photo poster display of 6 endangered species labeled and brief statement as to why it is endangered.
17. Any Other Exhibit relating to this class, not listed

Grade 9 and Up

26. Collect, press, identify and mount 10 wildflowers collected from one or two selected habitats such as a marsh, bog, prairie, maple woods, etc.
27. Exhibit 15 pages of a field notebook, to include one or two selected habitat
28. A photo poster display of 8 endangered species labeled and brief statement as to why it is endangered
29. Any Other Exhibit relating to this class, not listed

Class G --- Wildlife

Cover map of a farm showing fence rows, woodlands, waste areas and brush lands available for wildlife areas on a poster

Lots:

1. Display of 10 berry-bearing shrubs suitable for game bird feeding. Collection may be either seeds, fruits or leaves and must be properly identified
2. Drawings or illustrations of at least 5 fur animals, including an up-to-date report on habits, value of fur, importance as predators, how they are trapped, and where they're usually found
3. Poster or chart showing all game animals found in your area with notes on their feeding habits, reproduction and habitat requirements
4. Poster of 10 wildlife tracks, labeled.
5. A display or exhibit of pictures or drawings of fur-bearing animals found in your area and write-up of each covering its habits, economic value, etc.
6. A display or mounted plant specimens and foods important to wildlife in your area
7. Poster illustrating possible wildlife career(s)
8. Any Other Exhibit relating to this class, not listed

Class H --- Weather

Lots:

1. An exhibit of a rain gauge accompanied by precipitation records, cloud observation records and other information to complete an actual weather study for a period of at least two weeks

2. Poster or exhibit on how weather affects one of the following: man, crops, plants, animals, insects, fish, or disease
3. Display of a study of one of the following: thunder storms, hail, lightning, tornado, hurricane, winter storms, or straight-line storms
4. A weather log kept for a minimum of 6 weeks.
5. Chart / poster showing and explaining weather fronts and weather associated with fronts
6. Cloud chart / poster showing and explaining the 3 types of clouds—where they are found in the atmosphere and what they look like.
May use photos
7. Any other poster display, showing how the air, sun, earth, or water affects the weather.
8. Weather equipment made by member
9. Chart / poster showing general steps in making a weather forecast
10. Any other project related this class, not listed

Class I --- Shooting Sports

Lots:

1. Display of 4 spent rifle shells and 4 shotgun shell cases. (No loaded or primed cases permitted.) Mount on (14"x22") x 1/4" plywood. All shells must be different calibers. Label caliber or gauge and common usage.
2. Poster identifying the parts of a gun and purpose of each part
3. Poster or display telling story of proper gun handling in one or more of the following areas: afield, transporting, care or storage
4. Any other exhibit, display, or poster pertaining to Gun Safety
5. Shell component display: rifle cartridge or shot shell. (No powder primers allowed.)
6. Poster display of at least 10 types of guns. Sketch or use a picture to identify. Include name, action design and other information to identify the weapon
7. Poster display identifying common game animals and birds with notes on identification, feeding habits, habitat requirements, state laws regulating hunting of bird or animal
8. Poster or display on preparing game: skinning, plucking, drawing, etc.
9. Any other display, poster or exhibit pertaining to hunting sportsmanship
10. Ten pages of a field notebook on techniques of hunting a bird or animal
11. Ten pages of notes on a field trip, including photos and maps relating to hunting
12. Scrapbook on archery
13. Poster on archery
14. Display on types of arrows
15. Chart / poster on bow types
16. Ten pages of a field notebook on archery techniques. May include hunting
17. Any Other Exhibit relating to this class, not listed

Shooting Sport Contest Rules:

- Directions from Instructors and Project Leaders will be promptly followed.
- No horse play or unruly behavior is tolerated.
- Firearms will be handled in a safe manner at all times.
- Firearms will be thoroughly cleaned before the shooter can leave the shooting range.
- Posted range rules must be followed at all times.
- Failure to meet these expectations will result in exhibitor dropping one ribbon level even if following the number of rounds is achieved.
- Shoots will be held prior to the fair
- **Shotgun** (trap) - Shooting Contest

Lots:

18. Grades 7 - 8
19. Grades 9 - 10
20. Grades 11 & over

- **Rifle** (.22 caliber) - Target Shooting Contest

Lots:

21. Grades 7- 8
22. Grades 9 - 10
23. Grades 11 & Over

- **Muzzle Loader Rifle** (black powder) - Target Shooting Contest

Lots:

24. Grades 7 - 8
25. Grades 9 - 10
26. Grades 11 & Over

- **Archery - Target Shooting Contest**

- Blue Face League**

- Lots:**

- 27. Grades 3 – 6 (10 yards)
 - 28. Grades 7 – 9 (15 yards)
 - 29. Grades 10 & Over (20 yards)

- Animal Target League**

- 30. Grades 3 – 6 (5 - 20 yards)
 - 31. Grades 7 – 9 (5 - 20 yards)
 - 32. Grades 10 & Over (5 - 20 yards)

- Class J --- Winter Travel**

- Lots:**

- 1. Scrapbook on cross country skiing
 - 2. Poster on cross country skiing
 - 3. Poster or display of proper equipment with explanation
 - 4. Notebook of a field trip, including photos and maps, relating to cross country skiing
 - 5. Any Other Exhibit relating to this class, not listed

- Class K --- Adventures in Camping, Backpacking or Hiking**

- Lots:**

- 1. Poster or display summarizing adequate equipment needed for a camping, backpacking, or hiking trip. Itemize equipment into categories such as shelter, cooking, sleeping, lighting, refrigeration, etc.
 - 2. A homemade article useful on a family camping, backpacking, or hiking trip. If needed, include a description of ways the item is to be used. NO KITS!
 - 3. Poster or display summarizing survival information helpful for a camping, backpacking, or hiking trip
 - 4. Any other poster or display related to the family camping, backpacking, or hiking project
 - 5. Poster or display on outdoor cookery: fire, fuel, starters and heat control
 - 6. Poster or display on safety measures with outdoor cookery
 - 7. Poster, display, or booklet, of at least 4 menus for outdoor cooking
 - 8. Any other original display related to the outdoor cookery project
 - 9. Ten pages of a field notebook on an actual family camping, backpacking, or hiking trip
 - 10. Ten pages of notes on a field trip, including photos and maps, relating to a family camping, backpacking, or hiking trip
 - 11. Any Other Exhibit relating to this class, not listed

- Class L --- Adventures in Canoeing or Kayaking**

- Lots:**

- 1. Scrapbook on canoeing or kayaking
 - 2. Poster on canoeing or kayaking
 - 3. Poster or display of proper equipment with explanation
 - 4. Notebook of a field trip, including photos and maps, relating to canoeing or kayaking
 - 5. Any other exhibit relating to this class, not listed

- Class M --- Naturespace**

- Lots:**

- 1. Poster illustrating possible career(s) involving nature
 - 2. Any other exhibit explaining a career in Natural Science
 - 3. Poster related to a specific Naturespace land area studied
 - 4. A scrapbook or collection related to a specific Naturespace land area studied
 - 5. A written report or inventory related to a specific Naturespace
 - 6. Poster depicting the web of life
 - 7. Any other exhibit related to a specific Naturespace land area studied
 - 8. Collection of rocks, minerals, and/or fossils
 - 9. A map of your home and/or yard showing your waste reduction, recycling and composting efforts
 - 10. A home recycling exhibit
 - 11. A farm recycling exhibit
 - 12. A poster showing how to recycle or the importance of recycling
 - 13. Exhibit of dangers of improper recycling
 - 14. Any Other Exhibit relating to this class, not listed