

Department Junior 16 Natural Sciences

Important Information:

1. Click here for online entry <http://nwsfa.fairwire.com>
2. Schedule can be found online and on page 1. Judging times are subject to change based on entry count, and judges' schedule.
3. **Only use this year's Exhibitors Guide.**
4. General information that pertains to all departments can be found online and starting on page 2. It is the exhibitor's responsibility to follow all expectations.
5. By participating in the Northern Wisconsin State Fair, you agree to follow the Code of Ethics set forth by the NWSFA Board. Mistreatment of any animal will not be tolerated. Any exhibitor or person found mistreating animals during the exhibition will be dismissed from the fairgrounds with loss of premiums.
6. By participating you authorize the use of your image in pictures, audio, and video productions for advertising and marketing needs of the NWSF.
7. Judging & awards:
 - All entries will be judged by certified specialty judges using the Danish system.Types of judging:
 - **Face-to-Face:** Used for two departments.
 - B10(A) small animals, a.k.a. pocket pets. These animals are at the fairgrounds only for their conference with the judge. Ribbons will be given at the time of conferencing. Exhibitors may choose to display a picture of the animal the ribbon in the Youth building.
 - B17 Younger Youth grade K-2. Exhibitors individually discuss their project with a judge, learning the strengths and weaknesses of their project. All exhibitors in this department earn a multi-colored ribbon when they meet with the judge.
 - **Conference:** Used for all other Junior non-animal departments. The exhibitors conference with a judge, who may ask youth questions about their project and use the knowledge as well as the quality of the exhibit to place the entries according to the Danish method.
 - **Danish Method:** The judge will award ribbons AFTER all items have reviewed. This process determines the quantity of each place ribbon that can be awarded in that class. For example: if there are 15 items in a class, then only 3 may receive a blue, up to 7 may receive a red, up to 11 may receive a white, and up to 15 may receive a pink.
 - Classes may be further divided at the discretion of the judge.
 - Additional ribbons MAY be given at the judge's discretion and may include either a Judge's Choice ribbon (following State Fair rules) OR a Best in Show ribbon.
8. The department supervisor has the privilege of removing deteriorating exhibits during the fair.
9. School projects done for a grade may not be entered.
10. **Premiums:** Each worthy exhibit will receive a uniform premium of \$1.50.

Department Junior Natural Sciences #16 Notice the new terminology Department – Division – Class

- The exhibitor must be the one to take any pictures or photographs
- Work must have been created by the exhibitor since August 1 of the previous year (during the past 11 months).
- Tracings of commercial pictures from magazines or books are allowed.
- No weapons, live ammunition or powder allowed.

Division A – Adventures - Class # - Description

1. Poster showing proper clothing for an adventure activity. (Pick one activity)
2. Poster or display on building an outdoor fire.
3. Poster or display on camping safety.
4. Display on knot tying, 5 knots, explain what used for.
5. Poster or display on care and maintenance of camping equipment.
6. Homemade piece of adventure equipment.
7. Display showing the steps for planning an adventure trip.
8. Scrapbook, diary, or journal on a trip plan. Include location, equipment, clothing, food, and cost of trip.

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9. Any other poster or exhibit reflected adventures.

Division B - Natural Resources - Class # - Description

1. Photos (by exhibitor) of 10 reptiles found in Chippewa County properly identified.
2. Photos (by exhibitor) of 10 Amphibians found in Chippewa County properly identified.
3. Poster showing parts of reptiles properly identified.
4. Poster showing parts of amphibian properly identified.
5. Poster showing 5 ways to conserve energy in the home.
6. A simple solar appliance made by exhibitor including description.
7. A solar snack made by exhibitor with description on how it was made.
8. Simple energy experiment with results and conclusion.
9. Poster showing 5 sources of noise pollution illustrated with pictures, newspaper articles, etc. showing examples of each.
10. Poster showing 5 sources of air pollution and illustrating with pictures, newspaper articles, etc. showing examples of each.
11. Scrapbook illustrating poisonous plants properly identified.
12. Poster showing cycle of plant and animal succession in logged over areas.
13. Display of 20 properly labeled rocks, minerals, and/or fossils with correct name of specimen and whether metamorphic, sedimentary, igneous, fossil or mineral. Where it was found, and year identified.
14. Poster showing hardness scale of minerals, illustrating each mineral by photo, drawing, or cut out photo.
15. Jewelry or craft items made by exhibitors from rock.
16. Display of rocks polished by exhibitor with explanation of process.
17. Construct a terrarium and label the parts of the water cycle.
18. Scrapbook with photos and plans to reduce water runoff from the home.
19. Display showing how to conserve soil.
20. Scrapbook of at least 5 ways your family has conserved soil and water.
21. Poster illustrating cloud types, formations, and where found in atmosphere.
22. A weather station made by exhibitor.
23. Poster showing at least 5 ways plants and animals can predict the weather.
24. Chart weather and temperature at your home for 2 months and display on poster.
25. Poster or plaster cast of 10 wildlife tracks properly identified.
26. Photos of at least 5 wild animals found in Chippewa County. Identify the animal, when and where the photo was taken, and habitat of each.
27. Photo collection of 10 plants properly identified which provide food and shelter to wildlife (identified).
28. Model or photos of at least 3 fur bearing animal traps (identified).
29. Butterfly house made by exhibitor.
30. A nesting box for squirrels or wood ducks made by an exhibitor.
31. Scrapbook with photos and plans to improve backyard habitat. Explain what is done and what wildlife it will attract.
32. Scrapbook with photos and plans to improve farm plot habitat. Explain what is done and what wildlife it will attract.
33. Any other poster or display related to natural resources.

Division C – Birding - Class # - Description

1. A birdhouse or feeder made by exhibitor with an information card explaining which birds would use it.
2. Scrapbook of 10 species of birds seen at your feeder. Include photo or traced drawing from a commercial source, with dates, places and number observed.
3. Bird migration poster with route taken. Pick 2 species.
4. Poster showing 10 birds' beaks properly labeled with species.
5. Poster showing bird banding and its purpose.
6. Poster on parts of a bird, external and internal labeling each part.
7. Display of 10 non-game birds with notes on habitat and feeding.
8. Poster explaining how to identify. Example: songbird, waterfowl, raptor, etc. Pick one species.
9. Any other poster or display related to birds?

Division D - Bee Keeping - Class # - Description

1. Jar of honey
2. Comb of honey
3. Chart of exhibit of steps in production of honey and beeswax by the bees
4. Exhibit on sources of honey
5. Exhibit illustrating body parts of a bee and functions
6. Bee or Honey Product
7. Any other item not listed

Division E – Fishing - Class # - Description

1. Poster on external or internal parts of fish properly labeled.
2. Poster showing the life cycle of fish including habitat and food. Pick one species and label.
3. Poster identifying 10 game fish caught in Chippewa County.
4. Poster on 5 knots used in Fishing, label, and use of knot.
5. Poster on 10 kinds of hooks. Explain uses.
6. Poster on all kinds of rods, explain uses.
7. Poster showing how to clean a fish.
8. Display of 3 homemade lures or flies made by exhibitor. Explain uses. Cap or cover hook points!
9. Homemade tip-up.
10. Homemade worm box.
11. An exhibit or diagram of a structure in a lake.
12. A homemade fishing game or puzzle. Include solution.
13. Any other poster or display related to fishing.

Division F – Insects - Class # - Description

- No live exhibits of insects will be accepted. Collections of endangered or threatened species are not allowed.
1. Poster showing the life cycle of insects, their habitat, and food.
 2. Insect trap. Explain how it is used and what it attracts.
 3. Hand drawn insect with parts labeled. Grades 3-5 only.
 4. Collection of 10 beneficial insects identified with explanation.
 5. Collection of 10 harmful insects identified with explanation.
 6. Illustrated or photo display of plant damage done by insect. Identify plants, insects, and control methods.
 7. Plans for a butterfly garden with plants and butterflies attracted labeled.
 8. Insect display of 15 mounted insects from at least 3 different orders labeled with common name, order, and dates collected. 1st year.
 9. Insect display of 30 mounted insects from at least 5 different orders labeled with common name, order and dates collected. 15 can be from previous display. 2nd year.
 10. Insect display of 45 mounted insects from at least 7 different orders labeled with common name, order and dates collected. 30 can be from previous displays. 3rd year or more.
 11. Poster on understanding insect pesticide labels.
 12. Insect key.
 13. Spider web display.
 14. Any other poster or display related to insects.

Division G – Trees - Class # - Description

1. Collection of 15 tree leaves (top and underneath) pressed, mounted, and identified by exhibitor.
2. Collection of 15 tree seeds mounted and identified by exhibitor.
3. Mount and identify 15 wood specimen cross-sections with bark of different native trees.
4. Poster of proper pruning techniques.
5. Poster showing different wood measuring systems.
6. Poster showing Christmas tree production from beginning to end.
7. One-pint maple syrup. Tell how it was made.
8. One half pound maple sugar candy. Tell how it was made.
9. Any other poster or display related to trees.

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Division H - Wildflowers - Class # - Description

- No protected or endangered wildflower species accepted, excluding photos.
- 1. Poster showing the life cycle of wildflower. Include habitat and dispersal.
- 2. Poster with pictures of wildflowers that are protected by state law.
- 3. A homemade plant press made by exhibitor with explanation of how it is used.
- 4. Hand draw or collect, press, identify, label and mount 10 unprotected wildflowers; 1st year; 15, 2nd year; 20, 3rd year or more. May add to previous exhibit.
- 5. Photo collection of 10 wildflowers by exhibitor. Identify with common and scientific name, date, place found and habitat. 1st year.
- 6. Photo collection of 20 wildflowers by exhibitor. Identify with common and scientific name, date, place found, and habitat. Include at least 1 protected wildflower. 2nd year or more.
- 7. An original wildflower puzzle or game made by an exhibitor.
- 8. Photo or illustrated collection of 10 native shrubs, vines or ferns found in Chippewa County. Identify species, where found, date and habitat.
- 9. Illustrated poster showing medicinal property of 5 wildflower species, part of plant and uses.
- 10. Illustrated poster showing 5 edible wildflowers, species, part of plant used and preparation.
- 11. Any other related wildflower exhibit or poster.

Division I - Any Other Natural Science - Class # - Description

- No protected or endangered wildflower species accepted, excluding photos.
- 1. Any Exploring your Environment exhibit
- 2. Any Winter Travel Exhibit
- 3. Any Canoeing Exhibit
- 4. Any downhill Skiing Exhibit
- 5. Any Cross-Country Skiing Exhibit
- 6. Any Backpacking and Hiking Exhibit
- 7. Any Conservation Exhibit
- 8. Any Taxidermy Exhibit
- 9. Any Weather Exhibit
- 10. Any Wildlife Habitat Exhibit
- 11. Any Recycling Exhibit
- 12. Any Home Energy Exhibit
- 13. Any Water Exhibit
- 14. Any Boating Exhibit
- 15. Any Water Safety Exhibit
- 16. Any Astronomy Exhibit
- 17. Any Natural Science Exhibit not listed above

Division J – Archery - Class # - Description

- No weapons allowed.
- 1. Poster showing various parts of a bow and arrow.
- 2. Poster showing different type of bows or arrows and uses.
- 3. Poster on archery safety.
- 4. Display of arrowheads and feathers (in enclosed locked case only).
- 5. Homemade archery accessory.
- 6. Poster showing improvement in target progress. Include score cards, dates distances, etc.
- 7. Any other related archery exhibit or poster.

Division K - Pistol - Class # - Description

- No weapons, live ammunition or powder allowed.
- 1. Poster of different pistol types with name, action design.
- 2. Poster showing various parts of pistol, properly labeled.
- 3. Display of pistol ammunition types.
- 4. Homemade accessories made by exhibitor.
- 5. Safety poster related to pistol.
- 6. Poster showing proper pistol stances, advantages, and disadvantages.

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7. Poster or scrapbook, showing improvement in target shooting technique, includes pictures, score sheets, ammunition, dates etc.
8. Any other poster or exhibit related to pistol.

Division L - Rifle - Class # - Description

- No weapons, live ammunition or powder allowed.
1. Poster showing parts of a rifle.
 2. Poster showing actions of a rifle.
 3. Poster or display showing rifle sights.
 4. Poster showing rifle care and maintenance.
 5. Bullet display, properly labeled, no cased bullets.
 6. Cartridge display properly labeled. Empty cartridge only.
 7. Poster showing trajectory of selected bullet.
 8. Challenge program target.
 9. Poster showing proper shooting stance.
 10. Poster showing proper rifle handling in field, transport, home.
 11. Poster or scrapbook showing improvement in target shooting techniques. Include pictures, score cards, ammunition used, dates, firearm type, etc.
 12. Any other poster or display related to rifle.

Division M – Shotgun- Class # - Description

- No weapons, live ammunition or powder allowed.
1. Poster showing parts of shotgun.
 2. Poster showing actions of shotguns.
 3. Poster showing common carry positions of shotgun.
 4. Poster showing shotgun shell parts.
 5. Display of spent or empty shell cases with gauges, usage, shot sample.
 6. Accessory for use with shotgun made by exhibitor.
 7. Display or poster explaining spread patterns and use.
 8. Poster showing uses of various loads.
 9. Shotgun safety poster.
 10. Poster or scrapbooks, showing improvement in target shooting, include pictures, score cards, ammunition, dates, firearm, etc.
 11. Any other poster or exhibit related to shotgun.

Division N – Muzzleloading - Class # - Description

- No weapons, live ammunition or powder allowed.
1. Poster showing different muzzleloading types.
 2. Poster showing parts of muzzleloader.
 3. Display of cartridges/shells used in muzzleloading & their uses.
 4. Poster on muzzleloading safety.
 5. Poster or display of muzzleloading accessories. (No powder allowed)
 6. Poster showing proper muzzleloader handling while in field, transporting, cleaning, and at home.
 7. Poster explaining how powder types and amounts affect the shot.
 8. Poster or scrapbooks, showing improvement in target shooting, include pictures, score cards, ammunition, dates, firearm, etc.
 9. Accessory used for muzzleloading made by exhibitor.
 10. Any other poster or exhibit related to muzzleloading.