

JUNIOR NATURAL SCIENCE - DEPARTMENT 116

JUDGING DAY: FRIDAY of Pre-Fair Judging Week, 12:00 Noon - 6:00 PM.

Current Walworth County Fair overall Rules & Regulations apply and are at: walworthcountyfairgrounds.com.

RULES GOVERNING NATURAL SCIENCE EXHIBITS

1. Champion & Reserve Champion Awards will be given per judges' discretion per department, division, or class.
2. Age classification is based on your age as of January 1 of the current year.
3. All pieces of a display must be attached so that the display can be transported as a single unit.
4. Collections of specimens that are state or federal protected of any kind are not allowed as part of a display or exhibit.
5. For safety purposes, sharp objects are only permitted if they are covered.
6. **Any poster is limited to a size of 14" x 22". Displays are limited to 20"x 24"**.

PREMIUMS: 1st - \$2.25 2nd - \$2.00 3rd - \$1.75 4th - \$1.50

Division Letter:

A. Insects/Entomology

Rules:

1. Insect displays must be covered with glass or Plexiglass.
2. All collections must have proper mounting pins.
3. Labeled: name, date found, place found.
4. All insects must have been collected this year in the state of Wisconsin, or the United States.

Class #:

1. Collection of a minimum of 5 -10 Species of insects, Age 8-10
2. Collection of a minimum of 10 -15 Species of insects, Age 11 -13
3. Collection of a minimum of 15 - 20 Species of insects, Age 14 & up
4. Any other exhibit relating to entomology (spider web display, insect control displays poster of life stages of an insect)

Division Letter:

B. Bees and Honey, All Ages

FREE Honey jars (Queenline or Classic) available strictly for use in Junior Class Honey exhibits are available to all registered WCF Junior Class Honey exhibitors. **Donated by the WALWORTH COUNTY BEEKEEPERS ASSOCIATION.** All registered WCF Junior Class Honey exhibitors may pick up their honey jars at the Walworth County Fair Office M-F, 8a-4p after the official WCF Junior Class registration deadline. Limited quantity, first-come, first-serve.

Honey exhibits are required to use TWO (2) one pound Queenline style or Classic style glass jars, donated by the Walworth County Beekeepers Association. One jar may be opened and tasted during judging.

Class #:

1. Extracted white honey
2. Extracted amber honey
3. One comb of honey, can be a round or square section or a full frame
4. Artistic beeswax, must be 1 lb. minimum weight, 100% beeswax, may be more than one piece but must be firmly joined together, may be cast in a mold or carved.
5. Single serving of a food item made with honey, include recipe. Bring photo of exhibitor with exhibit on day of judging.
6. Poster or display about some aspect of beekeeping or honey
7. Beeswax candles, may be a single candle, a pair, or a set of candles, which may be dipped, molded, or rolled sheets

Division Letter:

C. Forestry, All Ages

Class #:

1. Poster or display featuring at least five different species of either coniferous or deciduous trees, including a sample leaf and indication of range and forest type for each
2. Poster identifying parts of a tree's root system and at least four things that roots do for trees
3. Poster or display showcasing at least 5 different tree products representing at least two parts of a tree (e.g. bark and trunk, roots and bark, etc.)
4. Poster, display, or notebook showcasing at least five different animals, insects, or bird species that make their home in, on, or near a particular species of tree
5. Poster or display featuring a cross-section of a tree with rings intact and labeled by year. Additionally, note the variety of tree from which the cross section is taken
6. Poster or display of a tree labeled with locations affected by tree disease and information about the disease itself.
7. Poster or display featuring five signs of harmful insect infestation in trees, invasive species, or habitat disruptions.
8. Notebook, poster or display showcasing the leaves of at least 15 different tree species. Include common and Latin names of each species, as well as information about the trees' range; cite sources used
9. Poster or display of ten or more fruits or seeds labeled with name of tree and categorized as fleshy or dry.
10. Notebook, poster, or display describing forestry-related businesses or careers
11. Research project describing conservation practices or forest management principles
12. Any other forestry exhibit

Division Letter:

D. Maple Syrup, All Ages

Rule: Maple syrup exhibits must include 1 clear pint jar and may be opened during judging.

Class #:

1. Light Maple Syrup (1 clear pint jar)
2. Dark Maple Syrup (1 clear pint jar)
3. Single serving of a food item made with maple syrup (including recipe). Exhibitor is to bring on the day of judging a 5x7 photo of themselves with food item entry to be displayed during the Fair.
4. Poster or display about some aspect of maple syrup

Division Letter:

E. Birds, All Ages

Class #:

1. Poster of 10 birds, pictures, drawings, properly labeled
2. Poster or display of migratory birds, minimum of 15 birds (list food, migratory path and nesting habits)
3. Homemade bird feeder or house (identify for type of bird, seeds used, where placed on attached label)
4. Poster or display showing 6 game birds (identify habitats, food, nest areas)
5. Journal regarding bird observation, minimum of 10, add 3 more for each year in the project.
6. Poster or display showing the anatomy of birds, may be hand drawn, but must identify species and labeled.
7. Any other bird-related project, properly labeled.
8. Photo album of birds, 5 to 10 different birds, labeled, exhibitor must have taken photo

Division Letter:

F. Sport Fishing, All Ages

Class #:

1. Poster or display using pictures or drawings of 8 Wisconsin Fish (include name, weight, habitat, feeding habits)
2. Poster or display of fishing equipment, **all hooks must be covered**
3. Poster or display of ice fishing, **all hooks must be covered**
4. Poster or display of 10 knots for fishing/boating
5. Personal fishing journal (may include lake maps and/or photos)
6. Display of 2 or more handmade lures, jigs, or spinner baits, **all hooks must be covered**
7. Poster or display of proper fish handling (cleaning, preserving, & preparing)
8. Poster or display of various fishing lines and leaders, indicating their uses.
9. Any other Sports Fishing exhibit/water exhibit (e.g., effects of pollution on the habitat of lake)

Division Letter:

G. Shooting Sports, All Ages

Rule: No real guns or live ammunition allowed as part of exhibits.

Class #:

1. Poster or display illustrating story of proper gun handling
2. Poster or display identifying the parts of a gun with a key to the purpose of each part
3. Poster or display of any other subject relating to the sport of hunting
4. Poster or display exhibit relating to Archery, arrows must be covered
5. Poster or display exhibit relating to Air Rifle or Air Pistol or .22 Rifle or .22 Pistol or Muzzleloader
6. Any other exhibit related to shooting
7. Handmade article related to shooting, such as, decoy, quiver, gun case

Division Letter:

H. Recycling Education, All Ages

Class #:

1. Poster or display showing how a recycling company or landfill works
2. Poster or display that compares renewable and non-renewable resources
3. Poster or display that explains composting and/or how to compost or Vermiculture (composting with worms)
4. Poster or display that shows conserving energy in your home
5. Poster or display that shows 5 (five) recyclable and 5 (five) non-recyclable materials
6. Poster or display that explains/shows the paper-making process
7. Turn Trash into Cash (poster only)
8. An article made of recyclable materials
9. Any other item related to recycling

Division Letter:

I. Adventures in Camping, All Ages

Class #:

1. Poster or display of camping equipment or clothing necessary for a specific environmental use; backpacking, rock climbing, night hiking, orienteering, etc., using drawings and/or photos
2. Poster showing Campfire safety and equipment needs
3. Poster or display of a sample menu for a full day's outing
4. Poster or display of knot tying techniques and usage for specific outdoor situations
5. Poster or display of safety procedures or first aid kit essentials appropriate for outdoor adventures
6. Poster or display of fire prevention in the outdoors
7. Any other outdoor adventure-based exhibit

Division Letter:

J. Wild Flowers, All Ages

Class #:

Flowers must be from Wisconsin

1. Pressed blossom of a flower (all parts properly labeled)
2. Poster or display of 10 wildflower photos, identify each flower and tell where photo was taken
3. Wildflower arrangement
4. Poster or display of 10 kinds of wildflower seeds
5. Poster, display or notebook showing the creation and maintenance of a wildflower garden or prairie study
6. Any other Wildflower project (e.g., sketch book, flower art)

Division Letter:

K. Geology, All Ages

Class #:

1. Collection of 6 - 10 rock or mineral specimens with a minimum of 3 minerals represented. Collection may include duplications that show variation. Label collection and note where each component was found
2. Poster or display describing plate tectonics of geological formations
3. Poster or display featuring fossil history through the geologic ages
4. Poster featuring rocks or minerals found in Wisconsin
5. Any other geology exhibit

Division Letter:

L. Canoeing, All Ages

Class #:

1. Poster or display showing canoe safety, maintenance and equipment
2. Homemade canoe paddles or canoe
3. Canoe trip journal or notebook
4. Any other canoe exhibit

Division Letter

M. Wildlife, All Ages

Class #:

1. Poster or display showing six wildlife species native to Walworth County or the state of Wisconsin. This may include different species of the same type of animal. This may **not** include insects
2. Poster or display showing the defense strategies used by four wildlife species
3. Poster or display showing endangered species
4. Poster or display of winged mammals
5. Taxidermy
6. Poster or display showing game management practices
7. Poster of 6 to 12 photos taken by exhibitor of wildlife. Must identify the wildlife in the photo
8. Poster or display showing tracks from six or more Wisconsin wildlife species
9. Any other wildlife exhibit

Division Letter:

N. Exploring Your State, All Ages

Class #:

1. Poster or display of Wisconsin State symbols or native trees
2. Poster or display of factors that contribute to pollution in Wisconsin
3. Poster or display of stars, constellations, and planets observable in the skies above Wisconsin
4. Poster or display of the differences of two or more Wisconsin habitats
5. Poster or display of six or more animal tracks specific to Wisconsin
6. Poster or display showing the origins of groundwater and how it is impacted by humans and the environment
7. Poster or display of climatology and connection of habitats in Wisconsin
8. Poster showing weather and its connection to environmental studies
9. Poster or display of invasive plants
10. Any other environmental exhibit

Division Letter:

O. Backpacking & Hiking, All Ages

Class #:

1. Poster or display with detailed explanation of plans for a hike, include schedule, needed supplies and meals.
2. Poster or display with detailed explanation of plans for a multi-day camping trip. Include information about travel plans, the camping site, anticipated activities, meals, and all supplies needed.
3. Poster or display showing appropriate hiking apparel for two different types of hiking adventures. Specify season and terrain.
4. Poster or display explaining the value and use of a compass while hiking.
5. Poster or display showing the steps to be taken on camping trips to honor the "Leave No Trace" principles.
6. Poster or display detailing the design of a **non-tent** backpacking shelter. Include a list of supplies needed to make it ready to sleep in.

Division Letter:

P. Renewable Energy, All Ages

Class #:

1. Poster or display exhibit describing how wind or solar energy is collected and/or converted for human use
2. Poster or display exhibit describing the benefits of one or more renewable energy sources
3. Poster or display exhibit comparing a renewable energy source to a non-renewable energy source
4. Poster or display exhibit showcasing one or more careers in a renewable energy field
5. Poster or display exhibit focused on usage of renewable energy sources in WI or throughout the U.S.
6. Any other renewable energy exhibit.

JUNIOR GEOSPATIAL

REGULATIONS:

1. Displays are limited to a size of 20" x 22". Posters are limited to a size of 14" x 22"

Division Letter:

Q. Geocaching, All Ages

Class #:

1. Poster or display exhibit comparing sizes and/or types of geocaches
2. Poster or display exhibit describing helpful items individuals should take with them when looking for caches
3. Poster or display exhibit documenting your personal adventure locating 3-5 geocaches
4. Poster or display exhibit showcasing your efforts to create and hide your own cache for others to find
5. Poster or display exhibit showcasing your efforts to teach others about some aspect of geocaching
6. Any other geocaching exhibit

Division Letter:

R. Geospatial, All Ages

Class #:

1. Poster or display explaining what GIS is and how it is used in the world today
2. Poster or display describing GIS-related careers
3. Poster or display comparing different types of maps or mapping apps
4. Any other geospatial exhibit