

**DEPARTMENT 16
JUNIOR NATURAL SCIENCES
(Naturespace)**



Superintendent – Dustin Heitkamp

All posters must be 14"x22"

NOTE: An exhibit may not be entered more than one year.

Premiums:

1st \$3.00 2nd \$2.75 3rd \$2.50 4th \$2.25

CLASS A – ENTOMOLOGY – Grade 3-8

CLASS AA – ENTOMOLOGY – Grade 9-13

Item No.

1. Homemade insect net
2. Display of insect killing equipment, label the jar for the chemical used
3. Collect, identify, mount 5 carnivorous insect species and tell what they eat
4. Collect, identify and mount 5 insect pollinators and list the plants they pollinate
5. Collect and mount at least 1 insect from 7 different insect families, identify the insects and the families
6. Collect, identify and mount 10 species from 1 insect order, name the order
7. Display and label a collection of 5 insects that spend their larval stage in the water
8. Display a collection of 3 or more nest building insects, identify insects and explain how nests are built
9. Make a found object insect, give it a name, be sure to include all of its major body parts
10. Insect observations records
11. Display on types of insect control in the home
12. Poster of animals and plants that eat insects
13. Insect trap, attach a 3"x5" card explaining how it works
14. Booklet on entomology careers
15. Poster on insect metamorphosis
16. Poster of various types of insect legs
17. Insect extractor, attach a 3"x5" card explaining how it works
18. Insect separator, attach a 3"x5" card explaining how it works
19. Poster on understanding insect pesticide labels
20. Report on an insect experiment
21. Butterfly garden plans
22. Poster of various types of insect mouths
23. Spider web display
24. Poster of various types of insect wings
25. Any other item not listed

CLASS B – FORESTRY Level 1: FOLLOW THE PATH

Item No.

1. Collections of at least 5 different types of leaves, identify each
2. Booklet on different types of trees
3. Poster on different types of roots
4. Cross section of a tree labeled with historical perspective
5. Poster on types of tree communities
6. Model of an effective ecosystem
7. Examples of good/bad soil
8. Poster on the process of photosynthesis
9. Topographic map of your county indicating use and/or features
10. Informational display on jobs that require knowledge of trees, forests etc.
11. Any other item not listed

CLASS C – FORESTRY Level 2: REACH FOR THE CANOPY

Item No.

1. Poster on how water moves from roots to canopy
2. Poster on life cycles of a tree

3. U.S. map showing forests in each state
4. Plants that coexist in a forest
5. Display describing the impact of one invasive species on a forest ecosystem
6. Poster on different tree diseases
7. Brochure of the risks of forest fires
8. Importance of forest densities
9. Display to show tools/methodology used to measure volume of standing trees
10. Informational display on why people need forests
11. Informational display on selecting urban tree planting sites
12. Any other item not listed

CLASS D – FORESTRY Level 3: EXPLORE THE DEEP WOODS

Item No.

1. Identifying trees using dichotomous tree key
2. Field guide of tree bark rubbings
3. Compare and contrast types of tree fruits
4. Map of forests in your county
5. Poster of forest biomes
6. Informational display on goods, services provided by forests
7. Comparison of renewable & nonrenewable resources
8. How-to guide on tree pruning
9. Informational display on forestry careers
10. Informational display on improving trees genetically
11. Any other item not listed

CLASS E – WILDFLOWERS – Grade 3-8

CLASS EA – WILDFLOWERS – Grade 9-13

Item No.

1. Photo collection of at least 7 wildflowers from a prairie habitat. (label)
2. Photo collection of at least 7 wildflowers from a wetland habitat (label)
3. Photo collection of at least 7 wildflowers from a forest habitat (label)
4. Photos or drawings of at least 5 wildflowers from the WI Endangered Species List, identify plant and tell whether it is endangered or threatened
5. Poster showing the parts of a plant
6. Photos or drawings of at least 3 different carnivorous plants, identify
7. Photos or drawings of at least 5 different medicinal plants, identify and explain use
8. Explanation of at least 4 different seed dispersal methods and display of seeds representing those methods (label)
9. Create a booklet explaining at least 10 examples of how plants were used traditionally by Native Americans, include pictures
10. Any other item not listed

CLASS F – WATER – Grade 3-8

CLASS FA – WATER – Grade 9-13

Item No.

1. Terrarium showing the water cycle. Label the different parts of the water cycle
2. Map of your watershed
3. Diorama of your watershed
4. Construct a diorama showing good water quality practices in your school (label)
5. Construct a diorama showing good water quality practices in your home (label)
6. Construct a diorama showing good water quality practices in your community (label)
7. Construct a diorama showing good water quality practices on your farm (label)
8. Diorama showing path of your drinking water from its origin, through your house and back to the environment (label)
9. Brochure showing environmentally friendly cleaning product alternatives
10. Display showing environmentally friendly cleaning product alternatives
11. Flyer on project ideas for your community
12. Any other item not listed

ADVENTURES Projects

CLASS G – INTRODUCTION TO ADVENTURES – Grade 3-8

CLASS GA – INTRODUCTION TO ADVENTURES – Grade 9-13

CLASS H – ADVENTURES – WINTER TRAVEL – Grade 3-8

CLASS HA – ADVENTURES – WINTER TRAVEL – Grade 9-13

CLASS I – ADVENTURES - CANOEING – Grade 3-8

CLASS IA – ADVENTURES - CANOEING – Grade 9-13

Item No.

1. Map created during project
2. Field notebook
3. Collection of camping or day trip recipes
4. Display of knots and/or hitches
5. Flyer on how to reduce human impact while camping
6. First aid kit for project or sport
7. Project scrapbook
8. Project journal
9. Canoe paddle you made
10. Homemade backpack
11. Any other item not listed

CLASS J – ADVENTURES - BICYCLING – Grade 3-8

CLASS JA – ADVENTURES - BICYCLING – Grade 9-13

Item No.

1. Develop a brochure on how to select a proper bike
2. Display on the benefits of bike helmets
3. Poster on proper bike safety
4. Create a maintenance check list to use before taking a bike trip
5. Environmental journal of all your observations along your favorite bike route
6. Create a display on “what to see and experience” along Wisconsin bike routes
7. Develop an itinerary for a bicycle day trip you are taking
8. Journal about the bicycle day trip you took
9. Develop an itinerary for a bicycling camping trip you are taking
10. Journal about the bicycling camping trip you took
11. Flyer on types of food to take on a bicycle trip
12. Any other item not listed

CLASS K – BACKPACKING & HIKING Level 1: Hiking Trails

Item No.

1. On a trail map, mark the locations of what you have seen
2. List of essentials for a hiking trip, include information on why
3. Diagram of the parts of a backpack
4. Assemble a first aid kit
5. Outline and photograph of a demonstration you gave on “moleskin”
6. Foods list for a hiking trip, include why it's a good choice
7. Detailed list of hiking adventure etiquette
8. Create a treasure hunt using a compass
9. Build your own compass
10. Photo journal of a weather safety program you organized
11. Display of regional animal tracks
12. Display of wildlife food samples, include information why not to feed wildlife
13. Compare and contrast hiking footwear including socks
14. Collection of day hike planning lists
15. Display of ways to protect yourself from lightning
16. Display of what to look for in a natural shelter
17. Journal of your backpacking/hiking experience

CLASS L – BACKPACKING & HIKING Level 2: Camping Adventures

Item No.

1. Collection of camping trip planning lists
2. Display identifying 6 different types of knots you have tied
3. Identify what to look for in a campsite, include a sketch of your ideal campsite

4. Photo display of you at different stages of pitching a tent
5. Outline and photograph of a demonstration you gave on camping tools
6. List of the essential camping gear for a trip lasting 3-7 days, include information on why it's important
7. A sample menu for a 3 day 3 meals per day camping trip
8. Collection of questions and answers you considered related to food preparation supplies.
9. Pros and Cons list of different types of camping stoves
10. Informative display on ways to dispose of “gray water” at your campsite
11. Compare and contrast different ways to purify water while camping
12. Research on micro-organisms in non-purified water
13. Create a photo journal on poisonous plants
14. Camping trip diary
15. Collection of your 15 minute environmental total silence observations
16. Information on a letter you wrote to an elected official on an environmental issue you are passionate about – include a copy of the letter, a photo of you mailing the letter and any follow up correspondence received.

CLASS M – BACKPACKING & HIKING Level 3: Backpacking Expeditions

Item No.

1. Examine 3 different kinds of maps, tell about their similarities and differences
2. Create an outdoor adventures pyramid game
3. Collection of information for planning a backpacking trip
4. Compare and contrast different types of backpacks, then explain which one is best for you and why
5. Share what things you should consider before purchasing a tent
6. Create a tent repair kit
7. Compare and contrast non-tent shelters
8. Create a photo story of 3 activities that you did at your backpacking campsite
9. Research what you can and cannot do in state or national parks
10. Outline and photograph of a demonstration you gave on backpacking menu planning
11. A sample menu for a 3 day 3 meals per day backpacking trip
12. Assemble a book of recipes to cook while on the trail
13. Research different environments and their effect on “Leave No Trace” backpacking
14. Your train for the trail log book
15. Research how to deal with a mechanical situation on a backpacking trip
16. Journal of your backpacking/hiking experience

CLASS N – RECYCLING – Grade 3-8

CLASS NA – RECYCLING – Grade 9-13

Item No.

1. A poster on recycling
2. A poster about your club's recycling
3. A poster showing items that can be recycled
4. Toy made from recycled materials. Attach a card explaining what was recycled
5. Decoration made from recycled materials; attach card explaining what was recycled
6. Useful household items made from recycled materials. Attach a card explaining what was recycled
7. Useful shop item made from recycled materials. Attach a card explaining what was recycled.
8. Display a small example of compost bin with glass or plastic side which would show the stages of the composition
9. Miniature solar dryer made of easily found materials from around the house
10. Display of at least 3 commonly recycled materials and an example of a product that it is recycled into (examples: milk jugs, pop bottles, newspapers, etc.)

11. Any other exhibit with card attached explaining what was recycled.

SPORTSFISHING Projects

CLASS O – SPORTFISHING Level 1: TAKE THE BAIT

Item No.

1. Poster identifying parts of a fish
2. ID booklet of fish in your area, include name, picture and where each can be found
3. Create a fish print
4. Display of types of bait
5. Display of the types of fishing knots
6. Display of the types of fishing tackle
7. Create a tackle box with an inventory check list
8. Report explaining proper tackle maintenance
9. Scrapbook showing proper casting techniques, include descriptive headings with pictures
10. Report explaining the differences between bobber and bottom fishing
11. Map of favorite fishing spot
12. Report on caring for your catch
13. Any other item not listed

CLASS P – SPORTFISHING Level 2: REEL IN THE FUN

Item No.

1. Brochure on selecting the right fishing knot
2. Guide on how to use a spinning rod and reel
3. Poster on how to cast a bait
4. Poster on how to cast a fly
5. Create a decorated lure or jig
6. Create a fly wallet
7. Create an artificial fly
8. Report on the Wisconsin fishing laws
9. Poster on how to cook fish
10. Report on cleaning a shoreline
11. Report on a watershed study
12. Create a soda bottle trap
13. Poster on fish senses
14. Report on fish adaptations
15. Any other item not listed

CLASS Q -SPORTFISHING Level 3: CAST INTO THE FUTURE

Item No.

1. Poster on parts of a fishing reel
2. Poster on fishing reel maintenance
3. Report on how to make artificial lures and flies
4. Poster on how to debarb and sharpen hooks
5. Create a lure design plan
6. Create a cedar wood lure
7. Display of a refurbished rod and reel
8. Display of customized tackle
9. Poster on types of insects fish consume
10. Create a fishing-related game
11. Create a sportfishing skillathon
12. Report of fishing trip plans
13. A fishing field journal
14. Develop a boat safety checklist
15. Report on angling ethics
16. Report on sportfishing-related careers
17. Any other item not listed

CLASS R – SHOOTING SPORTS – Grade 3-8

CLASS RA – SHOOTING SPORTS – Grade 9-13

Item No.

1. Poster identifying parts of a gun
2. Poster about cleaning a gun
3. Poster emphasizing gun safety
4. Display of 5 (only) empty shell casings, mounted and identified
5. Display of 10 or more empty shell casings, mounted and identified
6. Poster about archery safety
7. Poster about archery equipment

8. Plaster casts of tracks from 3 game animals, mounted and identified
9. Poster identifying 3 common game birds
10. Poster identifying 3 common game animals
11. Poster on preparing game (skinning, plucking, drawing etc.)
12. Poster of a shell reloading process
13. Poster about trapshooting, skeet and/or sporting clays
14. Poster / diagram of shotgun shell or rifle cartridge
15. Tree stand for bow hunting (homemade)
16. Homemade archery accessory
17. Any other item not listed

4-H ARCHERY TOURNAMENT

Superintendent – La Crosse County 4-H Shooting Sports Committee Sunday, Starts at NOON, Farm Progress Building.

All entrants must be enrolled in 4-H Archery Project. All entrants must have attended at least 2 La Crosse County 4-H Archery sessions during the current project year. Juniors, Intermediates and Seniors will shoot in mixed groups until everyone has completed. Trophies & Ribbons will be awarded at the end of the Tournament.

You may enter only ONE class (S or T).

CLASS S – BARE BOW

Item No.

1. Junior archery tournament, grades 3-5
2. Intermediate archery tournament, grades 6-8
3. Senior archery tournament, grades 9-13

CLASS T – SIGHT BOW and/or RELEASE

Item No.

1. Junior archery tournament, grades 3-5
2. Intermediate archery tournament, grades 6-8
3. Senior archery tournament, grades 9-13

CLASS U – AIR RIFLE TOURNAMENT

Class U is a Pre-Fair activity with results from the Air Rifle Tournament in March. Targets from the tournament will be displayed in the Youth Building.

Item No.

1. Junior air rifle tournament, grades 3-5
2. Intermediate air rifle tournament, grades 6-8
3. Senior air rifle tournament, grades 9-13