

**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 \$2.00 2nd \$1.75 3rd \$1.50 4th \$1.25

**CLASS A – ENTOMOLOGY**

**Member's Grade:**

3-8		9-13
Item No.	Item No.	
1	26	Homemade insect net
2	27	Display of insect killing equipment, label the jar for the chemical used.
3	28	Collect, identify, mount 5 carnivorous insect species and tell what they eat
4	29	Collect, identify and mount 5 insect pollinators and list the plants they pollinate
5	30	Collect and mount at least 1 insect from 7 different insect families, identify the insects and the families
6	31	Collect, identify and mount 10 species from 1 insect order, name the order
7	32	Display and label a collection of 5 insects that spend their larval stage in the water
8	33	Display a collection of 3 or more nest building insects, identify insects and explain how nests are built
9	34	Make a found object insect, give it a name, be sure to include all of its major body parts
10	35	Insect observations records
11	36	Display on types of insect control in the home
12	37	Poster of animals and plants that eat insects
13	38	Insect trap, attach a 3"x5' card explaining how it works
14	39	Booklet on entomology careers
15	40	Poster on insect metamorphosis
16	41	Poster of various types of insect legs
17	42	Insect extractor, attach a 3"x5" card explaining how it works
18	43	Insect separator, attach a 3'x5' card explaining how it works
19	44	Poster on understanding insect pesticide labels
20	45	Report on an insect experiment
21	46	Butterfly garden plans
22	47	Poster of various types of insect mouths
23	48	Spider web display
24	49	Poster of various types of insect wings
25	50	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**

**Member's Grade:**

3-8		9-13
Item No.	Item No.	
1	11	Photo collection of at least 7 wildflowers from a prairie habitat. (Label)
2	12	Photo collection of at least 7 wildflowers from a wetland habitat (Label)
3	13	Photo collection of at least 7 wildflowers from a forest habitat (Label)
4	14	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	15	Poster showing the parts of a plant
6	16	Photos or drawings of at least 3 different carnivorous plants, identify
7	17	Photos or drawings of at least 5 different medicinal plants, identify and explain use
8	18	Explanation of at least 4 different seed dispersal methods and display of seeds representing those methods (Label)
9	19	Create a booklet explaining at least 10 examples of how plants were used traditionally by Native Americans, include pictures
10	20	Any other item not listed

**CLASS F – WATER**

**Member's Grade:**

3-8		9-13
Item No.	Item No.	
1	13	Terrarium showing the water cycle. Label the different parts of the water cycle
2	14	Map of your watershed
3	15	Diorama of your watershed

4	16	Construct a diorama showing good water quality practices in your school (Label)
5	17	Construct a diorama showing good water quality practices in your home (Label)
6	18	Construct a diorama showing good water quality practices in your community (Label)
7	19	Construct a diorama showing good water quality practices on your farm (Label)
8	20	Diorama showing path of your drinking water from its origin, through you house and back to the environment (Label)
9	21	Brochure showing environmentally friendly cleaning product alternatives
10	22	Display showing environmentally friendly cleaning product alternatives
11	23	Flyer on project ideas for your community
12	24	Any other item not listed

## ADVENTURES Projects

### CLASS G – INTRODUCTION TO ADVENTURES

### CLASS H – ADVENTURES - WINTER TRAVEL

### CLASS I – ADVENTURES – CANOEING

#### Member's Grade:

3-8		9-13
<u>Item No.</u>	<u>Item No.</u>	
1	12	Map created during project
2	13	Field notebook
3	14	Collection of camping or day trip recipes
4	15	Display of knots and/or hitches
5	16	Flyer on how to reduce human impact while camping
6	17	First aid kit for project or sport
7	18	Project scrapbook
8	19	Project journal
9	20	Canoe paddle you made
10	21	Homemade backpack
11	22	Any other item not listed

### CLASS J – ADVENTURES – BICYCLING

#### Member's Grade:

3-8		9-13
<u>Item No.</u>	<u>Item No.</u>	
1	13	Develop a brochure on how to select a proper bike
2	14	Display on the benefits of bike helmets
3	15	Poster on proper bike safety
4	16	Create a maintenance check list to use before taking a bike trip
5	17	Environmental journal of all your observations along your favorite bike route
6	18	Create a display on "what to see and experience" along Wisconsin bike routes
7	19	Develop an itinerary for a bicycle day trip you are taking
8	20	Journal about the bicycle day trip you took
9	21	Develop an itinerary for a bicycling camping trip you are taking
10	22	Journal about the bicycling camping trip you took
11	23	Flyer on types of food to take on a bicycle trip
12	24	Any other item not listed

### CLASS K – BACKPACKING & HIKING Level 1: Hiking Trails

#### Item No.

- On a trail map, mark the locations of what you have seen
- List of essentials for a hiking trip, include information on why
- Diagram of the parts of a backpack
- Assemble a first aid kit

- Outline and photograph of a demonstration you gave on "moleskin"
- Foods list for a hiking trip, include why it's a good choice
- Detailed list of hiking adventure etiquette
- Create a treasure hunt using a compass
- Build your own compass
- Photo journal of a weather safety program you organized
- Display of regional animal tracks
- Display of wildlife food samples, include information why not to feed wildlife
- Compare and contrast hiking footwear including socks
- Collection of day hike planning lists
- Display of ways to protect yourself from lightning
- Display of what to look for in a natural shelter
- Journal of your backpacking/hiking experience

### CLASS L – BACKPACKING & HIKING Level 2: Camping Adventures

#### Item No.

- Collection of camping trip planning lists
- Display identifying 6 different types of knots you have tied
- Identify what to look for in a campsite, include a sketch of your ideal campsite
- Photo display of you at different stages of pitching a tent
- Outline and photograph of a demonstration you gave on camping tools
- List of the essential camping gear for a trip lasting 3-7 days, include information on why it's important
- A sample menu for a 3 day 3 meals per day camping trip
- Collection of questions and answers you considered related to food preparation supplies.
- Pros and Cons list of different types of camping stoves
- Informative display on ways to dispose of "gray water" at your campsite
- Compare and contrast different ways to purify water while camping
- Research on micro-organisms in non-purified water
- Create a photo journal on poisonous plants
- Camping trip diary
- Collection of your 15 minute environmental total silence observations
- 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.

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

## CLASS N – RECYCLING

### Member's Grade:

3-8		9-13	
<u>Item No.</u>	<u>Item No.</u>		
1	12	A poster on recycling	
2	13	A poster about your club's recycling	
3	14	A poster showing items that can be recycled	
4	15	Toy made from recycled materials. Attach a card explaining what was recycled	
5	16	Decoration made from recycled materials; attach a card explaining what was recycled.	
6	17	Useful household items made from recycled materials. Attach a card explaining what was recycled.	
7	18	Useful shop item made from recycled materials. Attach a card explaining what was recycled.	
8	19	Display a small example of compost bin with glass or plastic side which would show the stages of the composition	
9	20	Miniature solar dryer made of easily found materials from around the house	
10	21	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	22	Any other exhibit with card attached explaining what was recycled.	

## SPORTSFISHING Projects

### CLASS O – SPORTFISHING Level 1: TAKE THE BAIT

<u>Item No.</u>	
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

<u>Item No.</u>	
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

<u>Item No.</u>	
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

### Member's Grade:

3-8		9-13	
<u>Item No.</u>	<u>Item No.</u>		
1	21	Poster identifying parts of a gun	
2	22	Poster about cleaning a gun	
3	23	Poster emphasizing gun safety	
4	24	A display of 5 (only) empty shell casings, mounted and identified	
5	25	A display of 10 or more empty shell casings, mounted and identified	
6	26	Poster about archery safety	
7	27	Poster about archery equipment	
8	28	Plaster casts of tracks from 3 game animals, mounted and identified	
9	29	Poster identifying 3 common game birds	
10	30	Poster identifying 3 common game animals	
11	31	Poster on preparing game (skinning, plucking, drawing etc.)	
12	32	Poster of a shell reloading process	
13	33	Poster about trapshooting, skeet and/or sporting clays	
14	34	Poster / diagram of shotgun shell or rifle cartridge	
15	35	Tree stand for bow hunting (homemade)	
16	36	Homemade archery accessory	
17	37	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

<u>Item No.</u>	
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

<u>Item No.</u>	
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