

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



Superintendents – Jeanne Atchley and Leah Heram
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 – UNIT I INTRODUCTION TO NATURESPACE

Member's Grade:

3-8		9-13	
Item No.	Item No.		
1	8	Map of backyard or other natural area showing wildlife cover.	
2	9	Poster showing tracks of different animals found in your neighborhood (label).	
3	10	Display of 5 wildlife food samples. These may include seeds, leaves, bark etc. Name the food sample and tell what animal probably has been eating the food.	
4	11	Choose one of the following habitats - forest, pond, prairie, wetland - and create a diorama showing the plants and animals that live in that habitat.	
5	12	Create a plant/animal identification book for a specific habitat	
6	13	Identify and display 7 different invertebrates found living under a rotting log (label).	
7	14	Any other item not listed	

CLASS B – UNIT II GETTING TO KNOW BIRDS

Member's Grade:

3-8		9-13	
Item No.	Item No.		
1	8	Make a suet feeder	
2	9	Bird feeder of your own construction (unfinished)	
3	10	Bird house of your own construction (unfinished)	
4	11	Photos or sketches of 3 wetland, forest, or prairie birds (label the birds and habitat)	
5	12	Scrapbook of at least 5 birds seen on a 6:00 a.m., noon, or 6:00 p.m. hike. Identify and include size, foods, habitat, what bird was doing when you saw it.	
6	13	Bird adaptation poster	
7	14	Any other item not listed	

CLASS D – UNIT IV-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	

9	34	building insects, identify insects and explain how nests are built
10	35	Make a found object insect, give it a name, be sure to include all of its major body parts
11	36	Insect observations records
12	37	Display on types of insect control in the home
13	38	Poster of animals and plants that eat insects
14	39	Insect trap, attach a 3"x5' card explaining how it works
15	40	Booklet on entomology careers
16	41	Poster on insect metamorphosis
17	42	Poster of various types of insect legs
18	43	Insect extractor, attach a 3"x5" card explaining how it works
19	44	Insect separator, attach a 3"x5' card explaining how it works
20	45	Poster on understanding insect pesticide labels
21	46	Report on an insect experiment
22	47	Butterfly garden plans
23	48	Poster of various types of insect mouths
24	49	Spider web display
25	50	Poster of various types of insect wings
		Any other item not listed

CLASS E – 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 EA – 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 EB – 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 F – UNIT VI-WILDFLOWERS

Member's Grade:

3-8		9-13	
<u>Item No.</u>	<u>Item No.</u>		
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 G – UNITS VII-WATER

Member's Grade:

3-8		9-13	
<u>Item No.</u>	<u>Item No.</u>		
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	

CLASS H – UNITS VIII-WEATHER

Member's Grade:

3-8		9-13	
<u>Item No.</u>	<u>Item No.</u>		
1	3	Understanding weather, exhibit regarding air, sun, earth, water or weather	
2	4	Any other exhibit not listed	

ADVENTURES Projects

CLASS I – INTRODUCTION TO ADVENTURES

CLASS J – ADVENTURES - BACKPACKING

CLASS K – ADVENTURES - WINTER TRAVEL

CLASS L – 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 M – 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 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.	

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CLASS O – BEES

Member's Grade:

3-8 9-13

<u>Item No.</u>	<u>Item No.</u>	
1	5	Comb of honey
2	6	Jar of honey

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1st \$1.75 2nd \$1.50 3rd \$1.25 4th \$1.00

Member's Grade:

3-8 9-13

<u>Item No.</u>	<u>Item No.</u>	
3	7	Scrapbook of project
4	8	Poster – Honey Bees

CLASS P – 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, Noon, Farm Progress Building.

All entrants must be enrolled in 4-H Archery Project and have attended safety session and at least 1 other practice during project year (ribbons, premiums & trophies awarded)

You may enter only one class.

CLASS Q – BARE BOW

Item No.

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

CLASS R – 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, ages grades 9-13

SPORTSFISHING Projects

CLASS S – 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 T – 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 U -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