DEPARTMENT 016 – NATURAL SCIENCES

Entries must be made by July 31 of exhibit year. Face-to-face judging the Saturday before the fair,

9:00 am-2:00 pm, Youth Building.

Poster size: 14"x22". Tri-fold displays are not allowed.

Exhibitors are limited to ten (10) entries in Department 016.

Premiums: \$2.00 - \$1.75 - \$1.50 - \$1.25

DIVISION 155 – EXPLORING YOUR ENVIRONMENT

Open to youth enrolled in the 4-H Exploring Your Environment or Water projects or youth of other groups doing equivalent work. Class No.

- Exhibit on geological events, such as glaciers, 1. earthquakes, or volcanoes
- Exhibit of a rock collection, fossil, or mineral 2 (labeled)
- Exhibit of jewelry or craft made from rocks 3.
- Exhibit of soils from Wisconsin 4.
- Display of soil erosion 5
- Display on soil and water conservation 6.
- Exhibit on clouds, air pressure, wind, heat 7.
- Exhibit of weather instruments 8.
- 9. Exhibit of weather records you have kept
- 10. Exhibit of how weather affects people
- 11. Exhibit showing wildlife as a resource
- Identify wildlife and their foods 12.
- Exhibit on endangered species 13.
- Exhibit on Wisconsin game birds or animals 14
- Wildlife management/practices or plan 15.
- Exhibit on human impact on wildlife habitat 16.
- Exhibit on camouflage nature 17
- Exhibit of animal tracks 18.
- Exhibit on interrelationships of humans, 19. plants, wildlife, water, air, and sun
- 20. Display on food web
- Display on human effects on environment 21. Any other environmental or water project 22. exhibit

DIVISION 156 – WILD BIRDS

Open to youth enrolled in the 4-H Bird project or youth of other groups doing equivalent work. Class No.

- Exhibit of at least 5-10 birds (drawings or 1. pictures, properly labeled; food habits, migratory habits, habitat and nesting habits of each bird included)
- Picture or drawing of bird parts 2.
- Recording of 10 bird sounds (properly 3. identified)
- Two different bird feeders or bird houses 4
- Exhibit bird observation 5.
- Photo display of 5 different birds 6.
- Any other bird related exhibit 7.

DIVISION 157 - WILDFLOWERS

Open to youth enrolled in the 4-H Wildflower project or youth of other groups doing equivalent work. Class No.

- Homemade plant press (with explanation of 1. use)
- Exhibit pressed blossom of a flower (with all 2 flower parts properly labeled)
- Collection of 10 kinds of wildflower seeds 3. (show dispersal by wind, water, birds, and mammals)
- Mounted collection of 10 wildflower photos 4.
- 5 Wildflower arrangement
- An exhibit on edible or medicinal plant uses 6.
- A photo story (show the creation and 7.
- maintenance of a wildflower garden)
- 8. Collection of 10-15 different wildflowers (pressed, mounted, and labeled on index cards, covered with clear contact paper)

Any other exhibit related to wildflower management

DIVISION 158 – FORESTRY

Open to youth enrolled in the 4-H Forestry project or youth of other groups doing equivalent work. Class No.

- 1. Collection of leaves, winter twigs, and fruit of 10 trees (identify name of tree, date of collection, county, habitat)
- 2. Collection of 10 kinds of tree seeds (include name of tree, means of seed dispersal, desirable seedbed conditions, date, and place of collection)
- 3. 15 different leaf prints (labeled according to species)
- 4. Collection of at least 15 different tree leaves found in Northeast Wisconsin (properly labeled)
- Biltmore and height estimating stick or log 5. scale stick
- 6 Chart or diagram showing the annual life history of a tree
- 7. Display tree ailments and suggested cure
- Collection of 10 lumber specimens of native 8. trees (label with name of wood properties, uses, and date of collection)
- One pint of maple syrup (also bring an additional small sampling size) 9.
- A display of maple sugaring equipment with 10 written explanation of how it's used
- Exhibit on managing woodlands 11.
- Exhibit on Christmas tree production 12.
- Any other forestry/tree exhibit 13.

DIVISION 159

ADVENTURES

Open to youth enrolled in the 4-H Adventures project or youth of other groups doing equivalent work. Class No.

- 1. Exhibit of work assignments, from cooking to cleaning
- Exhibit of individual to team duties 2.
- Exhibit of camping equipment 3.
- Exhibit of camping safety 4.
- 5. Exhibit of outdoor survival skills
- 6. Exhibit of common knots used while camping
- 7. Exhibit on wilderness ethics
- 8. Exhibit of a one-day camping menu
- 9 Report on a camping experience 10.
 - Any other camping exhibit

WINTER TRAVEL

Open to youth enrolled in the 4-H Winter Travel project or youth of other groups doing equivalent work. Class No.

- 11. Exhibit on care and maintenance of winter travel equipment
- 12. Exhibit on selection of winter travel equipment
- 13. Exhibit on winter travel safety
- 14 Report on your winter travel experience
- Report on winter travel opportunities 15.
- Any other winter travel exhibit 16.

CANOEING/KAYAKING

Open to youth enrolled in the 4-H Canoeing / Kayaking project or youth of other groups doing equivalent work. Class No.

- Exhibit on canoe/kayak equipment 17.
- 18. Exhibit on canoe/kayak safety
- Exhibit on canoe/kayak trip (photos optional) 19.
- Exhibit on paddling techniques 20
- Any other canoe/kayak exhibit 21.
- 22. Exhibit on river information - ie. history, river conditions, animal life, etc.

BICYCLING

Open to youth enrolled in the 4-H Bicycling project or youth of other groups doing equivalent work.

Poster on preparing for a bicycle trip

À plan for bicycling camping trip

30. Basic backpacking equipment display

One-day backpacking menu display

Any other backpacking trip exhibit

DIVISION 160 - INSECTS/ENTOMOLOGY

Open to youth enrolled in the 4-H Entomology

Display showing how insects move

Exhibit on insect communication

Display showing insect control

Exhibit on entomology careers

Exhibit on insect observations

Exhibit on an insect life cycle

One pound jar of extracted honey

project or youth of other groups doing equivalent work.

Insects exhibited must have been collected since

Collection of 15 types of insects (properly

Collection of insect wings showing wing types

Display of beekeeping equipment with written

ARCHERY

Open to youth enrolled in the 4-H Archery project

Educational poster on the parts of a bow and

Educational poster or display on archery

Poster illustrating and briefly explaining

Poster showing proper shooting stance

sports project. May include logs, diary,

presentation of shooting scores or other.

photography, documented targets, graphical

Exhibit or report of competition experience

Display or report on the history of archery

Exhibit or scrapbook of a detailed accounting of

your participation and progress in your shooting

proper sight alignment for archery

Poster on archery safety

Collection of 10 insects representing 4

(professionally/creatively displayed)

Exhibit of a first aid kit with an inventory list

Story of backpacking trip (photos optional)

Comparison of two or more bicycle trips

BACKPACKING

project or youth of other groups doing equivalent work.

Open to youth enrolled in the 4-H Backpacking

Class No. Exhibit of equipment selection for bicycling

Report on bicycle trails

Exhibit on bicycle safety

Any other bicycle exhibit

(photos optional)

for backpacking

Exhibit on safety

Identify insect parts

different mouth types

Exhibit on beekeeping

Comb honey – 1 comb

Bee's wax exhibit - 3 items

Any other entomology exhibit

DIVISION 161 – SHOOTING SPORTS

or youth of other groups doing equivalent work.

explanation of how used

Exhibit on orienteering

trip

23.

24

25.

26.

27.

28.

29.

31.

32.

33.

34

35.

36.

last year's fair.

mounted)

and parts

Class No.

1.

2

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15

16.

Class No.

arrow

equipment

1.

2.

3.

4.

5.

6

7.

8.

Class No.

- 9. Poster on Wisconsin hunting laws and regulations
- 10. Homemade hip or belt quiver
- 11. Homemade ground quiver
- 12. Homemade armguard, finger tab, or glove
- 13. Homemade arrow
- 14. Homemade bow
- 15. Homemade bow case (fabric or wood)
- 16. Target backstop, bow rack, or arrow rack
- 17. Any other exhibit related to archery

ARCHERY – TARGET, INDIVIDUAL SHOOT

Open ONLY to youth enrolled in the 4-H Archery Project, who have participated in at least 2 county led practices.

- Exhibitors may only enter in ONE class.
- Date, time, and location of the shoot will be posted in the July and August 4-H newsletter.

Entrants have the option of bringing their own equipment or using 4-H bows. Bare-bow has no sighting devices or stabilizers. Freestyle bow may include sights, release aids, and/or stabilizers. (Grades just completed.)

Class No.

- 18. Grades 9-13 Compound Bare-bow
- 19. Grades 9-13 Compound Freestyle
- 20. Grades 9-13 Recurve Bare-bow
- 21. Grades 9-13 Recurve Freestyle
- 22. Grades 6-8 Compound Bare-bow
- 23. Grades 6-8 Compound Freestyle
- 24. Grades 6-8 Recurve Bare-bow
- 25. Grades 6-8 Recurve Freestyle
- 26. Grades 3-5 Compound Bare-bow27. Grades 3-5 Compound Freestyle
- 28. Grades 3-5 Compound Freestyle
- 29. Grades 3-5 Recurve Freestyle

AIR RIFLE

Open to youth enrolled in the 4-H Air Rifle project or youth of other groups doing equivalent work. Class No.

- 30. Educational poster showing the parts of an air rifle
- 31. Educational poster or display showing proper care and maintenance of an air rifle
- 32. Poster illustrating and briefly explaining
- proper sight alignment for air rifle 33. Poster showing proper shooting stance
- 34. Poster on air rifle safety
- 35. Exhibit or scrapbook of a detailed accounting of your participation and progress in your shooting sports project. May include logs, diary, photography, documented targets, graphical presentation of shooting scores or other.
- 36. Exhibit or report of competition experience
- 37. Target holder made from PVC pipe or from wood
- 38. Homemade shell pouch
- 39. Homemade kneeling roll
- 40. Homemade shooting bench
- 41. Homemade pellet block or stand
- 42. Homemade gun case (fabric or wood)
- 43. Any other exhibit related to air rifle

.22 RIFLE

Open to youth enrolled in the 4-H .22 Rifle project or youth of other groups doing equivalent work. Class No.

- 44. Poster display identifying the parts of a firearm
- 45. Poster on the proper care and maintenance of a rifle
- 46. Poster illustrating and briefly explaining proper sight alignment for 0.22 cal rifle
- 47. Poster showing proper shooting stance
- 48. Poster on .22 rifle safety
- 49. Exhibit or scrapbook of a detailed accounting of your participation and progress in your shooting sports project. May include logs, diary, photography, documented targets, graphical presentation of shooting scores or other.

50. Exhibit or report of competition experience

Exhibit of 2 or more lures (made from

Exhibit showing types of insects fish like to eat

Tackle box inventory check list with tackle box

Exhibit explaining how to use spinning rod

Personal fishing journal (may include lake

Exhibit of fish handling (preserving or

Any aspect of boating or fishing safety

Open to all enrolled 4-H youth. All wildlife

Photos must be mounted with rubber cement or

double-sided tape on white posterboard. No frames

Trail cam photo of a predator (coyote, fox,

cougar, etc.). Identify animal and where

Trail cam photo of a game animal (wild

Plaster cast of animal track, properly

turkey, deer, bear, etc.). Identify animal and

identified and where track was found (type of

Photo of songbird - 5x7 or 8x10, properly

Photo of predator - 5x7 or 8x10, properly

Poster with 4 or more "ink" animal tracks,

Poster of 4 birds, properly identified, and

Taxidermy - animal you mounted, properly

Any other exhibit relating to Wisconsin

Photo of game animal - 5x7 or 8x10, properly

Poster of 4 wild mammals, properly identified,

Any other related fish/fishing exhibit

DIVISION 164 - WISCONSIN WILDLIFE

exhibits must be from Wisconsin.

photo was taken.

where photo was taken.

area, - woods, field, etc.)

identified and where taken

identified and where taken

identified and where taken

and identify habitat they live in

Wisconsin area they live in

properly identified

identified

wildlife

recycled materials)

Exhibit of types of bait

Exhibit showing angling ethics

Exhibit showing fish adaptations Exhibit showing parts of fishing reel

5

6

7.

8.

9.

10.

11.

12.

13.

14.

15

16.

and reel

map)

preparing)

or glass permitted. Poster size: 14 x 22"

Class No.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11

- 51. Poster on Wisconsin hunting laws and regulations
- 52. Target holder made from PVC pipe or from wood
- 53. Homemade rifle sling
- 54. Homemade shell pouch
- 55. Homemade kneeling roll
- 56. Homemade shooting bench
- 57. Homemade pellet block or stand
- 58. Homemade gun case (fabric or wood)
- 59. Any other exhibit related to .22 rifle

SHOTGUN

Open to youth enrolled in the 4-H Shotgun project or youth of other groups doing equivalent work.

Class No.

- 60. Poster display identifying the parts of a firearm
- 61. Poster on the proper care and maintenance of a shotgun
- 62. Poster illustrating and briefly explaining proper sight alignment for shotgun trap gun
- 63. Poster showing proper shooting stance
- 64. Poster on shotgun safety
- 65. Exhibit or scrapbook of a detailed accounting of your participation and progress in your shooting sports project. May include logs, diary, photography, documented targets, graphical presentation of shooting scores or other
- 66. Exhibit or report of competition experience
- 67. Poster on Wisconsin hunting laws and regulations
- 68. Target holder made from PVC pipe or from wood
- 69. Homemade shotgun sling
- 70. Homemade shell pouch
- 71. Homemade kneeling roll
- 72. Homemade shooting bench
- 73. Homemade pellet block or stand
- 74. Homemade gun case (fabric or wood)
- 75. Any other exhibit related to shotgun

AIR RIFLE AND .22 RIFLE COMPETITIVE SHOOT

Youth MUST have attended a minimum of three project meetings in order to participate in the fair shooting competition. All four stances will be used. Scoring done as regular shooting competition.

Competition date, time, and location will be publicized in the July and August 4-H Newsletter.

- 76. Air rifle, open sight
- 77. Air rifle, with scope
- 78. .22 rifle, open sight
- 79. .22 rifle, with scope

DIVISION 162 – RECYCLING

Open to youth enrolled in the 4-H Recycling project or youth of other groups doing equivalent work. Class No.

- 1. Design a landfill
- 2. Display or exhibit on turning trash into cash
- 3. Display or poster showing how to recycle or the importance of recycling
- 4. Exhibit of renewable and non-renewable resources
- 5. Display or exhibit on how to compost
- 6. Exhibit of 3 items made from recycled materials
- 7. Any other recycling project

DIVISION 163 – FISHING

Open to youth enrolled in the 4-H Fishing project or youth of other groups doing equivalent work.

Exhibit of 5 fishing lures (made by exhibitor,

Class No.

4.

- 1. Exhibit showing 5 fish in their habitat
- Any aspect of fishing safety
 Exhibit of 10 knots for fish/boating (mounted

explain intended use)

and labeled)