

# DEPARTMENT 16 – NATURAL SCIENCES

## Junior Class

SUPERINTENDENTS

Mr. & Mrs. Roger Miles

ASSISTANT SUPERINTENDENTS

Lois Krantz, Mary Lou Bausch, Debra Krantz

Judging - 10:30 a.m. Friday

### No Exhibitor May Enter both Open and Junior Classes.

Limit four entries per class per exhibitor, one entry per lot number.

Shooting sports (Class 4) is unlimited entries, one per lot number.

All exhibits must be in place by 6:00 p.m. on Thursday.

### PREMIUMS

Blue	Red	White	Pink
\$2.50	\$2.25	\$2.00	\$1.75

### CLASS 1 - NATURESPACE

Entries should pertain to the Nature space you have studied. All work and exhibits must be a result of the current project year's work.

Entries should pertain and be identified as to the nature space studied. Nature Spaces may be identified as "wetland," "woodland," "prairie meadow (open field)," "fencerow," "backyard," "neighborhood," "combination, two or more," or "other" - (specify). Collections should include common name, scientific name, when and where collected and any other information. When collecting is not feasible or desirable (as in the case of rare or endangered species) surveys may be substituted. Surveys should be in an 8-1/2" x 11" notebook and include a page for each specimen observed.

#### Open to members grades 3-5.

Lot No.

1. Booklet 8-1/2" x 11", of 15 leaves mounted and identified.
2. Booklet 8-1/2" x 11", of 15 or more song birds, Wisconsin game fish or fur-bearing animals identified.
3. Exhibit of 20 insects mounted and identified. Maximum size 16" x 20".
4. Booklet 8-1/2" x 11", of 15 or more wild flowers or plants found in your Nature space, mounted and identified.
5. Inventory of Nature space in 8-1/2" x 11" booklet form. May include any or all of the following:
  - A map of your Nature space showing location of plants, animal homes, animal signs, buildings, sources of water, roads and other features.
  - Drawings, photos, and listing of Nature space observations.
  - Observations and/or measurements that show how the Nature space changes over throughout the four seasons.
6. A collection of six different rocks mounted and identified with location of discovery indicated. Maximum size display 8 1/2" x 11".
7. Poster 14" x 22" on habitat improvement. Include photos and description of plantings, bird houses (feeders & waters) that you may have used to improve your Nature space.
8. Any other project made by exhibitor.
9. Exhibit showing result of scientific experiment relating to nature (Examples: wind, water, air quality, soil, etc.)

#### Open to members grades 6-8.

10. Exhibit of 15 or more wood varieties mounted and identified.
11. Exhibit of 15 or more leaves, winter twigs, and seeds mounted and identified.
12. Booklet 8-1/2" x 11" of 20 or more song birds, Wisconsin game fish or furbearing animals identified. (Use your own photos.)
13. Exhibit of 30 insects mounted and identified. Maximum size 16" x 24".

14. Booklet, 8-1/2" x 11" (or display) of 20 or more wild flowers or plants found in your Nature space, mounted and identified.
15. Inventory of Nature space in 8-1/2" x 11" booklet form. May include any or all of the following:
  - A map of your Nature space showing location of plants, animal homes, animal signs, buildings, sources of water, roads and other features.
  - Drawings, photos and listing of Nature space observations.
  - Observations and/or measurements that show how the Nature space changes over throughout the four seasons.
16. A diorama of your Nature space (11" x 14" maximum).
17. Poster 14" x 22" on habitat improvement. Include photos and description of plantings, bird houses (feeders & waterers) that you have used to improve your Nature space.
18. Display (8-1/2" x 11" maximum) of five different soil samples mounted and identified with location of discovery. Include a listing of the types of plants and crops best suited for the soil.
19. Any other project made by exhibitor.
20. Exhibit showing result of scientific experiment relating to nature (Examples: wind, water, air quality, soil, etc.)

#### Open to members grade 9 and over.

21. Exhibit of 20 or more wood varieties mounted and identified.
22. Exhibit of 20 or more leaves, winter twigs, and seeds mounted and identified.
23. Booklet, 8-1/2" x 11" of 25 or more song birds, Wisconsin game fish or furbearing animals identified. (Use your own photos.)
24. Exhibit of 30 insects mounted and identified. Maximum size 16" x 24".
25. Booklet, 8-1/2" x 11" of 25 or more wild flowers or plants found in your Nature space, mounted and identified.
26. A diorama of your Nature space (14" x 22" maximum).
27. Poster 14" x 22" on habitat improvement. Include photos and description of plantings, bird houses (feeders & waters) that you have used to improve your Nature space.
28. Display (11" x 14" maximum) of ten different soil samples mounted and identified with location of discovery. Include a listing of the types of plants and crops best suited for the soil.
29. Any other project made by exhibitor.
30. Exhibit showing result of scientific experiment relating to nature (Examples: wind, water, air quality, soil, etc.)

### CLASS 2 - SPORTFISHING

Open to those enrolled in the Sport fishing Project. Current year's work only.

#### Open to members grades 3-5 enrolled in TAKE THE BAIT

1. Poster 14" x 22" or display identifies types of tackle.
2. Poster 14" x 22" or display identifies types of lures.
3. Poster 14" x 22" identifies types of fish in your area.
4. Poster 14" x 22" identifies 10 species of a fish.
5. Poster 14" x 22" map of your favorite fishing spot.
6. Tackle box checklist.
7. Display of three baits (tied flies and/or baits) made by exhibitor.
8. Any other exhibit pertaining to fishing.
9. Completed member guide (BU7598).

#### Open to members grades 6-8 enrolled in REEL IN THE FUN

10. Poster 14" x 22" how to use your spinning rod and reel.
11. Poster 14" x 22" how to cast bait and/or fly.
12. Poster 14" x 22" on types of fish knots.
13. Poster 14" x 22" on types of lures.
14. Poster 14" x 22" on State fishing regulations.
15. Poster 14" x 22" on different body shapes of 3 different fish.
16. Poster 14" x 22" a recipe on preparation and cooking a fish.
17. Soda Bottle trap.
18. Display of 6 baits (tied flies and/or baits) made by exhibitor.
19. Any other exhibit pertaining to fishing.
20. Completed member guide (BU 7599).

### **Open to members grade 9 and over enrolled in CAST INTO THE FUTURE**

21. Poster 14" x 22" on parts of a fishing reel.
22. Poster 14" x 22" or display how to make artificial lures and flies.
23. Poster 14" x 22" types of insects that fish like.
24. Poster 14" x 22" on sport fishing-related careers.
25. Boat safety checklist.
26. Fishing-related game.
27. Display of 6 baits (tied flies and/or baits) made by exhibitor.
28. Any other exhibit pertaining to fishing.
29. Completed member guide (BU7600).

### **CLASS 3 - SHOOTING SPORTS**

#### **Open to members grades 3-5.**

1. Poster (14" x 22") telling proper firearm or bow handling in one of the following areas:  
(a) Field; (b) Transporting; (c) Storage; or (d) Cleaning.
2. Booklet, 8-1/2" x 11", identifying common game birds or animals, listing requirements and state laws regulating hunting of birds or animals.
3. Poster (14" x 22") showing parts of firearm or bow properly identified.
4. Display board (14" x 22") showing (a) parts of an arrow; (b) arrow tip display; (c) 1/2 sectioned shot gun shells; (d) shot gun wads with shot cup but no shot; (e) bullet display without cartridge; (f) cartridge display; (g) other display with approval of 4-H Youth Agent one week prior to entry deadline. **NO LIVE AMMUNITION.**
5. Booklet showing shooting targets and progressions. (Other than archery). Include dates and leaders signature.
6. Booklet showing archery targets and progressions. Include dates and leaders signature.
7. Photo album, 8 1/2" x 11" with pictures and captions of shooting sports activities. This may include trips such as WI Deer Classic, Whitetails Unlimited Fundraiser, Shooting Sports Fun Day or any other such activities.
8. A wildlife photo album (8-1/2" x 11") identifying small or big game animals in their natural habitat.
9. Exhibit of handmade accessory item.
10. Display or journal of any other subject relating to shooting sports (this journal may be continued in subsequent years).
11. Scrapbook on hunter's diary of his/her hunts.

#### **Open to members grades 6-8.**

12. Poster (14" x 22") telling proper firearm or bow handling in one of the following areas:  
(a) Field; (b) Transporting; (c) Storage; or (d) Cleaning.
13. Booklet, 8 1/2" x 11", identifying common game birds or animals, listing requirements and state laws regulating hunting of birds or animals.
14. Poster (14" x 22") showing parts of firearm or bow properly identified.
15. Display board (14" x 22") showing (a) parts of an arrow; (b) arrow tip display; (c) 1/2 sectioned shot gun shells; (d) shot gun wads with shot cup but no shot; (e) bullet display without cartridge; (f) cartridge display; (g) other display with approval of 4-H Youth Agent one week prior to entry deadline. **NO LIVE AMMUNITION.**
16. Booklet showing shooting targets and progressions. (Other than archery). Include dates and leaders signature.
17. Booklet showing archery targets and progressions. Include dates and leaders signature.
18. Photo album, 8 1/2" x 11" with pictures and captions of shooting sports activities. This may include trips such as WI Deer Classic, Whitetails Unlimited Fundraiser, Shooting Sports Fun Day or any other such activities.
19. A wildlife photo album (8-1/2" x 11") identifying small or big game animals in their natural habitat.
20. Exhibit of handmade accessory item.

21. Display or journal of any other subject relating to shooting sports (this journal may be continued in subsequent years).
22. Scrapbook on hunter's diary of his/her hunts.

#### **Open to members grade 9 and over.**

23. Poster (14" x 22") telling proper firearm or bow handling in one of the following areas:  
(a) Field; (b) Transporting; (c) Storage; (d) Cleaning.
24. Booklet, 8-1/2" x 11", identifying common game birds or animals, listing requirements and state laws regulating hunting of birds or animals.
25. Poster (14" x 22") showing parts of firearm or bow properly identified.
26. Photo album, 8 1/2" x 11" with pictures and captions of shooting sports activities. This may include trips such as WI Deer Classic, Whitetails Unlimited Fundraiser, Shooting Sports Fun Day or any other such activities.
27. Best design for tree stand. Blueprint or actual stand.
28. Display board (14" x 22") showing (a) parts of an arrow; (b) arrow tip display; (c) 1/2 sectioned shot gun shells; (d) shot gun wads with shot cup but no shot; (e) bullet display without cartridge; (f) cartridge display; (g) other display with approval of 4-H Youth Agent one week prior to entry deadline. **NO LIVE AMMUNITION.**
29. Booklet showing shooting targets and progressions. (Other than archery). Include dates and leaders signature.
30. Booklet showing archery targets and progressions. Include dates and leaders signature.
31. Exhibit of handmade accessory item.
32. Display or journal of any other subject relating to shooting sports (this journal may be continued in subsequent years).
33. Scrapbook on hunter's diary of his/her hunts.

### **CLASS 4 - SHOOTING SPORTS EVENT**

Bloomington Area Sportsman Club, Cemetery Road West of Lancaster

**\*No limit on number of entries, one per lot number.**

**\*The participation attendance of two practices to be eligible for competition has been waived for the 2021 Grant County Fair.**

**\*4-H youth must be 12 years of age or older and certified in Hunter Safety to operate any powder burning firearm. This includes 22 handgun or rifle, muzzle loading handgun or rifle, or shotgun, per WI 4-H policy.**

**\*Maximum of 3 practice arrows (optional)**

Division 1 (Grade 3-5) 10 Yards

1. Bare bow
2. Bow and one shooting aid\*
3. Bow and two shooting aids\*
4. Bow and three or more shooting aids\*

Division 2 (Grade 6-8) 10 Yards and under

5. Bare bow
6. Bow and one shooting aid\*
7. Bow and two shooting aids\*
8. Bow and three or more shooting aids\*

Division 3 (Grade 9 and over) 20 Yards and under

9. Bare bow
10. Bow and one shooting aid\*
11. Bow and two shooting aids\*
12. Bow and three or more shooting aids\*

\*Shooting aids are-fixed sites, moveable sites, releases, stabilizers

Requests for reasonable accommodations for disabilities or limitations should be made in writing to the extension office one week prior to shoot date.

13. Air rifle - (Grade 3-5) Stationary target
14. Air rifle - (Grade 6-8) Stationary target
15. Air rifle - (Grade 9 & over) Stationary target
16. Air rifle - (Grade 3-5) Rotating target
17. Air rifle - (Grade 6-8) Rotating target
18. Air rifle - (Grade 9 & over) Rotating target
19. Air Pistol - (Grade 6-8), must have completed hunter safety - Stationary target
20. Air Pistol - (Grade 9 and over), must have completed hunter safety - Stationary target
21. 22 Rifle - (Grade 6-8), must have completed hunter safety-Rotating target-Open Sights
22. 22 Rifle - (Grade 9 and over) must have completed hunter safety-Rotating target-Open Sights
23. 22 Rifle - (Grade 6-8) must have completed hunter safety-Rotating target-Scope
24. 22 Rifle - (Grade 9 & over) must have completed hunter safety-Rotating target-Scope
25. 22 Rifle - (Grade 6-8) must have completed hunter safety-Stationary targets-Scope
26. 22 Rifle - (Grade 9 & over) must have completed hunter safety-Stationary target-Scope
27. 22 Rifle - (Grade 6-8) must have completed hunter safety-Stationary target-Open Sights
28. 22 Rifle - (Grade 9 & over) must have completed hunter safety-Stationary target-Open Sights
29. Shotgun is 5 shots at 5 stations of trap shooting, must have completed hunter safety

#### **CLASS 5 - RECYCLING AND ENVIRONMENTAL EDUCATION**

##### **Open to members grades 3-8.**

1. A labeled display of nature's recyclers (decomposers) using drawings, pictures, or photographs.
2. An exhibit showing natural cycles (water, nutrient, etc.).
3. An exhibit showing renewable and nonrenewable resources.
4. An exhibit showing the daily, weekly or annual amount of waste generated by an individual family, club, state or country.
5. A display on recycling of products.
6. A poster (14" x 22") showing how to recycle or the importance of recycling.
7. An exhibit on how an individual can reduce the amount of resources (s) he uses.
8. A map of your home and/or yard showing your waste reduction, recycling and composting efforts.
9. A home recycling exhibit.
10. A farm recycling exhibit.
11. An exhibit on farm composting.
12. An exhibit showing how recycling fits into natural cycles.
13. An exhibit showing how to make animal bedding from scrap paper or the pros and cons of animal bedding made from paper.
14. A model landfill or incinerator (3-D) with an explanation of how it works.
15. Any article the member has made using recycled materials.

##### **Open to members grade 9 and over.**

16. A labeled display of nature's recyclers (decomposers) using drawings, pictures, or photographs.
17. An exhibit showing natural cycles (water, nutrient, etc.).
18. An exhibit showing renewable and nonrenewable resources.
19. An exhibit showing the daily, weekly, or annual amount of waste generated by an individual family, club, state or country.
20. A display on recycling of products.
21. A poster (14" x 22") showing how to recycle or the importance of recycling.

22. An exhibit on how an individual can reduce the amount of resources (s) he uses.
23. A map of your home and/or yard showing your waste reduction, recycling and composting efforts.
24. A home recycling exhibit.
25. A farm recycling exhibit.
26. An exhibit on farm composting.
27. An exhibit showing how recycling fits into natural cycles.
28. An exhibit showing how to make animal bedding from scrap paper or the pros and cons of animal bedding made from paper.
29. A model landfill or incinerator (3-D) with an explanation of how it works.
30. Any article the member has made using recycled materials.

#### **CLASS 6 - ADVENTURES PROJECT**

##### **Open to members grades 3-8.**

Lot No.

1. Booklet with photographs, drawings, captions and/or story illustrating your experiences in the "Adventures" project.
2. Any article made by the exhibitor to be used in outdoor "Adventure" activity.
3. Booklet with photographs, drawings, captions and/or story illustrating your experiences in the "Backpacking" project.
4. Booklet with photographs, drawings, captions and/or story illustrating your experiences in the "Winter Travel" project.
5. Booklet with photographs, drawings, captions and/or story illustrating your experiences in the "Canoeing" project.
6. Booklet with photographs, drawings, captions and/or story illustrating your experiences in the "Bicycling" project.

##### **Open to members grade 9 and over.**

Lot No.

7. Booklet with photographs, drawings, captions and/or story illustrating your experiences in the "Adventures" project.
8. Any article made by the exhibitor to be used in outdoor "Adventure" activities.
9. Booklet with photographs, drawings, captions and/or story illustrating your experiences in the "Backpacking" project.
10. Booklet with photographs, drawings, captions and/or story illustrating your experiences in the "Winter Travel" project.
11. Booklet with photographs, drawings, captions and/or story illustrating your experiences in the "Canoeing" project.
12. Booklet with photographs, drawings, captions and/or story illustrating your experiences in the "Bicycling" project.

#### **CLASS 7 - MAPLE SYRUP**

##### **Open to members grades 3-8.**

Lot no.

1. Best jar of maple syrup (produced by the exhibitor)

##### **Open to members grade 9 and over.**

Lot no.

2. Best jar of maple syrup (produced by the exhibitor)

#### **CLASS 8 - HONEY**

##### **Open to members grades 3-8.**

Lot no.

1. Best jar of honey (produced by the exhibitor)
2. Best comb of honey (produced by the exhibitor)

##### **Open to members grade 9 and over.**

Lot no.

3. Best jar of honey (produced by the exhibitor)
4. Best comb of honey (produced by the exhibitor)