

DEPARTMENT 10



SECTION A-24
4-H AND FFA
NATURAL RESOURCES



Premiums \$3 \$2 \$1

CLASS 1 — WILDLIFE ACTIVITY

MAKE ONE EXHIBIT (POSTER SHOULD BE 14 X 22)
SHOWING WHAT YOU HAVE LEARNED OR DONE IN THE
WILDLIFE PROJECT. BRING YOUR EXHIBIT IN A BOX THAT
IS LABELED WITH YOUR NAME AND THE ITEMS IN YOUR
EXHIBIT.

- A. Birds
- B. Mammals
- C. Reptiles/Amphibians
- D. Habitat
- E. Fly Tying
- F. Skills
- G. Miscellaneous

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CLASS 2 — WOODWORKING FOR WILDLIFE

- A. Woodworking project & poster (14" x 22")
 - 1. Bird House
 - 2. Bird Feeder
 - 3. Mammal House
 - 4. Other

CLASS 3 — WILDLIFE IS ALL AROUND US

COMPLETED PROJECT AND EXHIBIT

- A. Wildlife Detective — completed project book & exhibit
- B. Spring — Birdhouse
- C. Summer — Labeled track cast
- D. Fall — Backyard habitat sketch
- E. Winter — Feeder
- F. Endangered Species
 - 1. Book and drawing or construction of an ultimate predator
 - 2. Poster or display of threatened or endangered animal and way to prevent extinction.
- G. Free Lance

CLASS 4 — WILDLIFE Ecologist & Manager

- A. **Ecologist**
 - 1. Poster
 - 2. Journal
- B. **Manager**
 - 1. Poster
 - 2. Journal

CLASS 5 — SPORT FISHING

- A. Take the Bait
 - 1. Poster with photos or drawings of 7 species of fish.
 - 2. Poster with three types of tackle, labeled.
 - 3. Poster with five types of bait, labeled.
- B. Reel in the Fun
 - 1. Poster
 - 2. Poster with the 5 fishing knots labeled. Knots should be tied and attached to the poster.
 - 3. Fly wallet with wooly bugger fly.
- C. Cast Into the Future
 - 1. Poster
 - 2.. Item Made

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CLASS 6 — FORESTRY

- A. Adopt A Tree - exhibit album
- B. Treetop:
 - 1. Year 1 —Touchbox (page 26)
 - 2. Year 2 —Leaves Sun Loving and Shade Tolerant Trees page (43)
- C. Trees & Me = Forestry
 - 1. Year 1—Display showing your favorite tree (page 10) or leaves, twigs, seeds, or stems of 6 or more tree species (page 16).
 - 2. Year 2—Display seed collection of at least 8 seeds in a box, grouped and labeled (page 28).
 - 3. Year 3—Plan metric-map orienteering Activities (page 42).
- D. Advancing in Forestry
 - 1. Year 1—One project from the Exhibit & Roundup section of any completed chapter.
 - 2. Year 2—One project from Chapters 4 & 5 or from the Exhibit and Round-Up section or a signed score sheet from the PA 4-H Forestry Judging Contest.
- E. Orienteering
 - 1. Exhibit a poster about a completed activity such as pacing or compass
 - 2. Exhibit a poster with pictures of the orienteering activity you set up for others to do.

CLASS 7 — OUTDOOR ADVENTURES-Exhibit a poster about an activity that you completed.

- A. Hiking
 - 1. Tioga County Hiking Locations/Trails
 - 2. Planning, preparation and packing for a hike
 - 3. Hiking Safety
- B. Camping
 - 1. Poster on camping gear
 - 2. Poster on eight (8) knots
 - 3. Journal from camping trip with pictures and stories.
- C. Back Packing
 - 1. Poster

CLASS 8 — 4-H CAMP

- A. Campers
 - 1. Poster
 - 2. Craft from camp
- B. Scrapbook
- C. 3 Dimensional Display

CLASS 9 — WATER CONSERVATION-Display a poster

- A. Water usage and conservation
- B. Properties of water

CLASS 10 —ROCKS & FOSSILS

- A. Shoebox diorama showing photos of your activities, incl. 3 rocks and/or fossils labeled with name of specimen and date, time, and place found.
- B. Diorama, poster or display of activities and field trip. Include an opened geode.

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CLASS 11 — MAPLE SYRUP

- Year 1 — 1 quart maple syrup
- Year 2 — at least 1/2 pound of maple cream
- Year 3 — One each: 1 quart maple syrup, at least 1/2 lb. maple cream, 1 lb. Cake maple sugar OR an educational display about making maple syrup. Display must include one of the above products.

CLASS 12 — GPS/GIS

Exhibit a poster that does one of the following. (Include photos, pictures, or drawing to help relay your information):

- Explains how a GPS works
- Describes your geocaching experience.
- Describes how you established your own geocache.

CLASS 13 -- HONEY

- Jar of honey
- Jar of honey with honey comb
- Poster
- Display
- Scrapbook
- Other



SECTION A-26 4-H & FFA ENGINEERING



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CLASS 1 —ELECTRIC EXCITEMENT

(A different item must be made and exhibited for each year in the project.)

- Electric 1:
 - Year 1. Exhibit a simple working circuit using a light, buzzer, lamp, or other electric-powered object.
 - Year 2. Exhibit an electromagnet, galometer, or motor
- Electric 2 — Exhibit a simple telegraph, burglar alarm or rocket launch system. (Make a different one each year.)
- Electric 3 — Exhibit one of the following:
 - Electrical tool & supply kit with items labeled.
 - Poster of floor plan(s) of your home (min. of 5 rooms) showing location of the service entrance panel and all switches, receptacles, and fixtures, using appropriate symbols.
 - A switch, labeled as either single pole or three-way, correctly wired.
- Electric 4 — Exhibit one of the following. (Make a different one each year.)
 - Working integrated circuit.
 - LED circuit with blinking light.
 - Alarm built using photocell or an intruder alarm

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CLASS 2 — WOOD SCIENCE

Refer to Roundup Requirements

- Measuring Up
- Making the Cut
- Nailing It Together
- Finishing It Up
- Free Lance Project
 - Small Furniture
 - Large Furniture
 - Small Item
 - Large Item

CLASS 3 — BICYCLE ADVENTURES

Exhibit a poster (14" x 22") regarding any phase of the Bicycle project.

- Unit 1
- Unit 2
- Unit 3

CLASS 4 — SHOOTING SPORTS

Refer to Roundup Requirements

- Air Rifle
- Advanced Air Rifle
- Air Pistol
- Advanced Air Pistol
- .22 Rifle
- Archery
- Shotgun
- Shooting Sports Craft— Display Item Made

CLASS 5—SMALL ENGINES

- Level 1:
 - External Parts—Display a small (max. 18 h.p.) engine with external parts identified by name and function.
 - Tools—Display 10 tools or pictures of 10 tools and descriptions of their functions. (If using actual tools, be sure to fasten them securely to display board.)
 - Shop Safety—Display or poster focusing on small engine shop safety
- Level 2:
 - Internal Parts—Display a small (max. 18 h.p.) engine with internal parts identified by name and function.
 - Personal Safety—Display or poster focusing on personal safety in a small engine shop.
 - Engine Oil—Display or poster on engine oil viscosity and service classification.