



Nature

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33215. Merit Badge Workbooks and much more are below: [Online Resources](#).

Workbook developer: craig@craiglincoln.com. Requirements revised: 2003, Workbook updated: April 2008.

Scout's Name: _____ Unit: _____

Counselor's Name: _____ Counselor's Ph #: _____

1. Name three ways in which plants are important to animals.

Name a plant that is protected in your state or region, _____
and explain why it is at risk. _____

2. Name three ways in which animals are important to plants.

Name an animal that is protected in your state or region, _____
and explain why it is at risk. _____

3. Explain the term "food chain." _____

Give an example of a four-step land food chain _____

and a four-step water food chain. _____

4. Do all of the requirements in FIVE of the following fields:

a. Birds

- 1. In the field, identify eight species of birds.
- 2. Make and set out a birdhouse OR a feeding station OR a birdbath. List what birds used it during a period of one month.

b. Mammals

- 1. In the field, identify three species of wild animals. _____
- 2. Make plaster casts of the tracks of a wild mammal. _____

c. Reptiles or Amphibians

- 1. Show that you can recognize the poisonous snakes in your area. _____
- 2. In the field, identify three species of reptiles or amphibians. _____
- 3. Recognize one species of toad or frog by voice; OR identify one reptile or amphibian by eggs, den, burrow, or other signs.

d. Insects or Spiders

- 1. Collect, mount, and label 10 species of insects or spiders.

- 2. Hatch an insect from the pupa or cocoon; OR hatch adults from nymphs; OR keep larvae until they form pupae or cocoons; OR keep a colony of ants or bees through one season. _____

e. Fish

- 1. Catch and identify two species of fish. _____
- 2. Collect four kinds of animal food eaten by fish in the wild.

f. Mollusks and Crustaceans

- 1. Identify five species of mollusks and crustaceans.

- 2. Collect, mount, and label six shells.

g. Plants

- 1. In the field, identify 15 species of wild plants.

- 2. Collect and label the seeds of six plants OR the leaves of 12 plants.

h. Soils and Rocks

- 1. Collect and identify soils found in different layers of a soil profile. _____

2. Collect and identify five different types of rocks from your area.

Note: In most cases all specimens should be returned to the wild at the location of original capture after the requirements have been met. Check with your merit badge counselor for those instances where the return of these specimens would not be appropriate.

Under the Endangered Species Act of 1973, some plants and animals are or may be protected by federal law. The same ones and/or others may be protected by state law. Be sure that you do not collect protected species.

Your state may require that you purchase and carry a license to collect certain species. Check with the wildlife and fish and game officials in your state regarding species regulations before you begin to collect.

Online Resources (Use any Internet resource with caution and only with your parent's or guardian's permission.)

Boy Scouts of America: ▶ scouting.org ▶ [Guide to Safe Scouting](#) ▶ [Age-Appropriate Guidelines](#) ▶ [Safe Swim Defense](#)
▶ [Scout](#) ▶ [Tenderfoot](#) ▶ [Second Class](#) ▶ [First Class](#) ▶ [Rank Videos](#) ▶ [Safety Afloat](#)

Boy Scout Merit Badge Workbooks: [BSA Troop 780](#) -or- usscouts.org -or- meritbadge.org **Merit Badge Books:** www.scoutstuff.org

American Birding Assn: <http://www.americanbirding.org>

American Fisheries Society: <http://www.fisheries.org>

American Museum of Natural History: <http://www.amnh.org>

Audubon Magazine online: <http://magazine.audubon.org>

BirdSource: <http://www.birdsource.org>

Cornell Ornithology: <http://www.birds.cornell.edu>

Discover Magazine: <http://www.discover.com>

Environmental Protection Agency: <http://www.epa.gov>

Int. Assn. of Fish and Wildlife Agencies: <http://www.iafwa.org>

Nat. Climatic Data Center: <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

Nat. Geographic Society: <http://www.nationalgeographic.com>

Nat. Park Service: <http://www.nps.gov>

U.S. Fish and Wildlife Service: <http://www.fws.gov>

American Bird Conservancy: <http://www.abcbirds.org>

American Meteorological Society: <http://www.ametsoc.org/AMS>

American Zoo and Aquarium Association: <http://www.aza.org>

Audubon Society: <http://www.audubon.org>

◀ Bird Photos & Songs: <http://www.learnbirdsongs.com/>

Conservation and Resource Center: <http://www.si.edu/crc>

The Discovery Channel: <http://dsc.discovery.com/>

◀ Frog Songs: <http://www.naturesound.com/frogs/frogs.html>

Leave No Trace Center: <http://www.LNT.org>

Nat. Fish and Wildlife Foundation: <http://www.nfwf.org>

Nat. Oceanic and Atmospheric Admin: <http://www.noaa.gov>

Nat. Wildlife Federation: <http://www.nwf.org>

Wildlife Conservation Society: <http://wcs.org>