



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](#).

Send comments to: craig@craiglincoln.com. Requirements revised: 2003, Workbook updated: March 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.)

Merit Badge Workbooks: usscouts.org -or- meritbadge.org

► **Merit Badge Books:** www.scoutstuff.org

Boy Scouts of America: <http://www.scouting.org/>

► [Requirements](#)

► [Intro to Merit Badges](#)

[Guide to Safe Scouting](#)

[Leave No Trace](#)

[Outdoor Code](#)

[Wilderness Use Policy](#)

[Youth Protection Training](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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