

# MERIT BADGE SERIES



# NATURE



BOY SCOUTS OF AMERICA®

STEM-Based

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*"Enhancing our youths' competitive edge through merit badges"*



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# Requirements

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 mammals.
    - (2) Make plaster casts of the tracks of a wild mammal.
  - c. Reptiles and Amphibians
    - (1) Show that you can recognize the venomous 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.

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d. Insects and 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.

# Nature Resources

## Scouting Literature

*Conservation Handbook; Fieldbook;*  
 The Principles of Leave No Trace;  
*Mammals* pocket guide; *Reptiles*  
 and *Amphibians* pocket guide;  
*Eastern Backyard Birds* pocket guide;  
*Western Backyard Birds* pocket guide;  
*Bugs and Slugs* pocket guide; *Edible*  
*Wild Plants* pocket guide; *Roadside*  
*Wildflowers* pocket guide; *Freshwater*  
*Fishes* pocket guide; *Trees* pocket guide;  
*Geology* pocket guide; *Animal Science,*  
*Backpacking, Bird Study, Camping,*  
*Canoeing, Environmental Science, Fish*  
 and *Wildlife Management, Fishing,*  
*Fly-Fishing, Forestry, Gardening, Geology,*  
*Hiking, Insect Study, Mammal Study,*  
*Oceanography, Photography, Plant Science,*  
*Reptile and Amphibian Study, Soil and*  
*Water Conservation, Sustainability,*  
 and *Wilderness Survival* merit  
 badge pamphlets

Visit the Boy Scouts of America's  
 official retail website at  
<http://www.scoutstuff.org> for a  
 complete listing of all merit badge  
 pamphlets and other helpful  
 Scouting materials and supplies.

## Books

- Arnett, Ross H. *American Insects: A Handbook of the Insects of America North of Mexico*, 2nd ed. CRC Press, 2000.
- Behler, John. *Reptiles (The National Audubon Society First Field Guide)*. Scholastic Trade, 1999.
- Bland, Roger G., and H.E. Jaques. *How to Know the Insects*, 3rd ed. Waveland Press, 2010.
- Cassie, Brian. *Amphibians (The National Audubon Society First Field Guide)*. Scholastic Trade, 1999.
- Dance, S. Peter. *Shells*, 2nd ed. DK Adult, 2002.
- Dillon, Mike. *The Great Birdhouse Book*. Sterling Publications, 2000.
- Elpel, Thomas J. *Botany in a Day: The Patterns Method of Plant Identification*, 6th ed. Hops Press, 2013.
- Fichter, George S., and Phil Francis. *Fishing: A Guide to Fresh and Salt-Water Fishing*, St. Martin's Press, 2013.
- Griggs, Jack, ed. *All the Birds of North America: American Bird Conservancy's Field Guide*. Harper Collins, 2002.

- Harris, James G., and Melinda Woolf Harris. *Plant Identification Terminology: An Illustrated Glossary*, 2nd. ed. Spring Lake Publishers, 2001.
- Izaak Walton League of America. *Guide to Aquatic Insects and Crustaceans*. Stackpole Books, 2006.
- Levine, Lynn, and Martha Mitchell. *Mammal Tracks and Scat: Life-Size Tracking Guide*. Heartwood Press, 2008.
- MacDonald, David, ed. *The Encyclopedia of Mammals*. Facts on File, 2006.
- Rehder, Harald A. *National Audubon Society Field Guide to North American Seashells*. Knopf, 1981.
- Tarbuck, Edward J., et al. *Earth: An Introduction to Physical Geology*, 11th ed. Pearson, 2013.
- Wernert, Susan J., ed. *Reader's Digest North American Wildlife*. Reader's Digest, 2008.

## Organizations, Periodicals, and Websites

### Acorn Naturalists

Website: <http://www.acornnaturalists.com>

### American Birding Association

Toll-free telephone: 800-850-2473  
Website: <http://aba.org>

### American Museum of Natural History

Central Park West at 79th Street  
New York, NY 10024-5192  
Website: <http://www.amnh.org>

### Bee Culture Magazine

Website: <http://www.beeculture.com>

### Discover Magazine

Website: <http://discovermagazine.com>

### National Audubon Society

Website: <http://www.audubon.org>

### National Fish and Wildlife Foundation

1133 15th St. NW, Suite 1100  
Washington, DC 20005

Website: <http://www.nfwf.org>

### National Geographic Society

Website:  
<http://www.nationalgeographic.com>

### National Park Service

Website: <http://www.nps.gov>

### U.S. Fish and Wildlife Service

Website: <http://www.fws.gov>

### World Wildlife Fund

Website: <http://worldwildlife.org>

## Recordings of Bird Calls

Peterson, Roger Tory. *Field Guide to Bird Songs: Eastern/Central North America*. 1990. CD with 250 species.

Walton, Richard, and Robert Lawson. *Birding by Ear*. 1989.

———. *Birding by Ear: Western*. 1990.

———. *More Birding by Ear: Eastern and Central*. 1994.

## Biological Supply Companies

### BioQuip Products

Telephone: 310-667-8800  
Website: <http://www.bioquip.com>

### Carolina Biological Supply Company

Website: <http://www.carolina.com>