



Nature

Merit Badge Workbook



This workbook can help you but you still need to read the merit badge pamphlet.

This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor

Merit Badge Counselors may not require the use of this or any similar workbooks.

You still must satisfy your counselor that you can demonstrate each skill and have learned the information. You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show", "tell", "explain", "demonstrate", "identify", etc, that is what you must do.

No one may add or subtract from the official requirements found in Scouts BSA Requirements (Pub. + 33216) and/or on Scouting.org.

The requirements were last issued or revised in 2018 • This workbook was updated in January 2021.

Scout's Name: _____ Unit: _____

Counselor's Name: _____ Phone No.: _____ Email: _____

Please submit errors, omissions, comments or suggestions about this **workbook** to: Workbooks@USScouts.Org

Comments or suggestions for changes to the **requirements** for the **merit badge** should be sent to: Merit.Badge@Scouting.Org

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

1.

2.

3.

**Workbook © Copyright 2021 - U.S. Scouting Service Project, Inc. - All Rights Reserved
Requirements © Copyright, Boy Scouts of America (Used with permission.)**

This workbook may be reproduced and used locally by Scouts and Scouters for purposes consistent with the programs of the Boy Scouts of America (BSA), the World Organization of the Scout Movement (WOSM) or other Scouting and Guiding Organizations. However it may NOT be used or reproduced for electronic redistribution or for commercial or other non-Scouting purposes without the express permission of the U. S. Scouting Service Project, Inc. (USSSP).

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.

1.	
2.	
3.	

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.

land food chain

1.	
2.	
3.	
4.	

water food chain

1.	
2.	
3.	
4.	

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

a. **Birds**

1. In the field, identify eight species of birds.

<input type="checkbox"/> 1.	
<input type="checkbox"/> 2.	
<input type="checkbox"/> 3.	
<input type="checkbox"/> 4.	
<input type="checkbox"/> 5.	
<input type="checkbox"/> 6.	
<input type="checkbox"/> 7.	
<input type="checkbox"/> 8.	

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.

(There is a table you may use to record your observations at the end of this workbook.)

b. **Mammals**

1. In the field, identify three species of wild mammals.

<input type="checkbox"/> 1.	
<input type="checkbox"/> 2.	
<input type="checkbox"/> 3.	

2. Make plaster casts of the tracks of a wild mammal.

c. **Reptiles or Amphibians**

1. Show that you can recognize the venomous snakes in your area.

2. In the field, identify three species of reptiles or amphibians.

<input type="checkbox"/> 1.	
<input type="checkbox"/> 2.	
<input type="checkbox"/> 3.	

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, and identify either in the field or through photographs 10 species of insects or spiders.*

<input type="checkbox"/> 1.	
<input type="checkbox"/> 2.	
<input type="checkbox"/> 3.	
<input type="checkbox"/> 4.	
<input type="checkbox"/> 5.	
<input type="checkbox"/> 6.	
<input type="checkbox"/> 7.	
<input type="checkbox"/> 8.	
<input type="checkbox"/> 9.	
<input type="checkbox"/> 10.	

- 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. Identify two species of fish native to your area.

<input type="checkbox"/> 1.	
<input type="checkbox"/> 2.	

- 2. Collect four kinds of animal food eaten by fish in the wild.

<input type="checkbox"/> 1.	
<input type="checkbox"/> 2.	
<input type="checkbox"/> 3.	
<input type="checkbox"/> 4.	

f. Mollusks and Crustaceans

- 1. Identify five species of mollusks and crustaceans.

<input type="checkbox"/> 1.	
<input type="checkbox"/> 2.	
<input type="checkbox"/> 3.	
<input type="checkbox"/> 4.	
<input type="checkbox"/> 5.	

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

<input type="checkbox"/> 1.	
<input type="checkbox"/> 2.	
<input type="checkbox"/> 3.	
<input type="checkbox"/> 4.	
<input type="checkbox"/> 5.	
<input type="checkbox"/> 6.	

g. Plants

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

<input type="checkbox"/> 1.	
<input type="checkbox"/> 2.	
<input type="checkbox"/> 3.	
<input type="checkbox"/> 4.	
<input type="checkbox"/> 5.	
<input type="checkbox"/> 6.	
<input type="checkbox"/> 7.	
<input type="checkbox"/> 8.	
<input type="checkbox"/> 9.	
<input type="checkbox"/> 10.	
<input type="checkbox"/> 11.	

- 12.

--
- 13.

--
- 14.

--
- 15.

--

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

- 1.

--
- 2.

--
- 3.

--
- 4.

--
- 5.

--
- 6.

--

h. **Soils and Rocks**

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

- 1.

--
- 2.

--
- 3.

--
- 4.

--
- 5.

--

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

- 1.

--
- 2.

--
- 3.

--
- 4.

--
- 5.

--

5. Discuss the principle of Leave No Trace and how it relates to nature.

(OPTIONAL): Although this requirement appears in the 2020 printing of the **Nature** merit badge pamphlet, it is not included in the requirements listed on Scouting.org, nor is it included in the 2021 edition of **Scouts BSA Requirements**.

Requirement 4d(1): *Photos may be those taken with your own equipment or gathered from other sources.

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.

Requirement 4a(2) Listing of what birds used the birdhouse, feeding station, or birdbath you set out

Starting Date:							Ending Date:			
Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
1.										
2.										
3.										
4.										
5.										

When working on merit badges, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088). Important excerpts from that publication can be downloaded from <http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf>. You can download a complete copy of the *Guide to Advancement* from <http://www.scouting.org/filestore/pdf/33088.pdf>.