

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.

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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.	

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, mount, and label 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. Catch and identify two species of fish.

<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.	
<input type="checkbox"/>	12.	
<input type="checkbox"/>	13.	
<input type="checkbox"/>	14.	
<input type="checkbox"/>	15.	

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

h. **Soils and Rocks**

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

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

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

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

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.

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>.