



Nature

Merit Badge Requirements

- 1) Name 3 ways in which plants are important to animals.
- 2) Name three ways in which animals are important to plants.
- 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 the requirements in Five of the following fields:

Birds

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

Mammals

- A) In the field, identify three species of wild mammals.
- B) Make plaster casts of the tracks of a wild mammal.

Reptiles or Amphibians

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

Insects or Spiders

- A) Collect, mount, and label 10 species of insects or spiders.
- B) 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.

Fish

- A) Catch and identify two species of fish.
- B) Collect four kinds of animal food eaten by fish in the wild.

Mollusks and Crustaceans

- A) Identify five species of mollusks and crustaceans.
- B) Collect, Mount, and label six shells.

Plants

- A) In the field, identify 15 species of wild plants.
- B) Collect and label seeds of six plants; OR the leaves of 12 plants

Soils and Rocks

- A) Collect and identify soils found in different layers of a soil profile.
- B) Collect and identify five different types of rocks from your area.

- 5) Do ONE of the following:

- A) Raise tadpoles from eggs; OR raise adults from tadpoles; OR keep and adult reptile or amphibian so it stays healthy for one month.
- B) Develop a simple aquarium with fish and plant life. Keep it so they stay healthy for one month.
- C) Develop an aquarium. Keep in it two species of mollusks or crustaceans so they stay healthy for 1 month.
- D) Build a terrarium with three species of plants. Keep it so the plants stay healthy for one month.
- E) Grow seeds for one month in two kinds of soil. Describe difference in rate of growth.

Requirement 1

Name three ways in which plants are important to animals.

1) _____

2) _____

3) _____

Requirement 2

Name three ways in which animals are important to plants.

1) _____

2) _____

3) _____

Requirement 3

Explain the term "Food Chain:" _____

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

Step 1: _____

Step 2: _____

Step 3: _____

Step 4: _____

Give an example of a four-step water food chain:

Step 1: _____

Step 2: _____

Step 3: _____

Step 4: _____

Requirement 4

Choose five of the following fields. Do all of the requirements in each of the five fields that you have selected.

Birds

List the 8 species of birds that you identified in the field:

_____	_____	_____
_____	_____	_____
_____	_____	_____

What did you set out for the birds: Birdhouse Feeding Station Birdbath

List what birds used it over a one-month period

_____	_____	_____
_____	_____	_____

Mammals

List the three species of wild mammals that you identified in the field:

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

What mammal tracks did you make a plaster cast of? _____

Reptiles or Amphibians

What poisonous snakes in your area are you able to identify?

_____	_____	_____
_____	_____	_____

List the three species of reptiles or amphibians that you identified in the field:

_____	_____	_____
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List the species of toad or frog that you were able to identify by voice: _____

OR, List the reptile or amphibian that you were able to identify by eggs, den, burrow or other signs: _____

Insects or Spiders

List the 10 species of insects or spiders that you collected, mounted and labeled. Show the collection to your counselor.

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Which elective did you do to complete this requirement? (Circle the one you completed)

- 1) Hatch an insect from the pupa or cocoon
- 2) Hatch adults from nymphs
- 3) Keep larvae until they form pupae or cocoons
- 4) Keep a colony of ants or bees through one season

Give a brief summary of what your experience: _____

Fish

What two fish did you catch and identify?

List the four types of animal food, eaten by fish in the wild, which you were able to collect:

Mollusks and Crustaceans

List the five species of mollusks and crustaceans that you were able to identify:

List the names of the six shells that you collected, mounted and labeled. Show the collection to your counselor.

Plants

List the fifteen species of wild plants that you were able to identify in the wild:

List the names of the six species of plant seeds OR the twelve plant leaves that you collected and labeled. Show the collection to your counselor.

Soils and Rocks

List the types of soils that you found in the different layers of a soil profile:

List the five different types of rocks that you collected from your area. Show the rocks to your counselor.

Requirement 5

Do **ONE** of the following

- A) Raise tadpoles from eggs; OR raise adults from tadpoles; OR keep an adult reptile or amphibian so it stays healthy for one month.
- B) Develop a simple aquarium with fish and plant life. Keep it so they stay healthy for one month.
- C) Develop an aquarium. Keep in it two species of mollusks or crustaceans so they stay healthy for 1 month.
- D) Build a terrarium with three species of plants. Keep it so the plants stay healthy for one month.
- E) Grow seeds for one month in two kinds of soil. Describe difference in rate of growth.

Which one did you select? _____ Fill out the answer(s) below that matches the option you selected.

A= Write a short summary of what you did and your experience: _____

B= List the fish and plant life that you had in your aquarium: _____

What did you have to do to keep it healthy? _____

C= List the Mollusks or Crustaceans that you had in your aquarium: _____

What did you have to do to keep them healthy? _____

D= List the three species of plants you kept in your terrarium:

What did you have to do to keep them healthy? _____

E= What seeds did you decide to grow? _____

List the two soil types you planted them in: _____

Describe the difference in the rate of growth: _____
