



MAMMAL STUDY

The 2012 Spring PowWow

Official Merit Badge Worksheet

Scout's Name

Instructor's Name

Scout's Address

City

State

Zip

Instructions

- 1) The Scout is to review the merit badge book before the first week of PowWow.
- 2) Bring this work sheet, paper, and pencil or pen each week.
- 3) **Bring a Merit Badge blue card with you on the second week.**

Requirement Instructions*

- 1) Requirement 1 will be passed off during the two sessions of PowWow.
- 2) Requirement 2 will be passed off during the two sessions of PowWow.
- 3) Requirement 3 should be completed **either before PowWow or as homework** between the two sessions.
- 4) Requirement 4 should be completed **either before PowWow or as homework** between the two sessions.
- 5) Requirement 5 should be completed **either before PowWow or as homework** between the two sessions.

* Due to possible time constraints at the PowWow, certain requirements that were originally planned to be completed in class may need to be completed as homework. Please LISTEN to ALL INSTRUCTIONS in class to be aware of any changes.

Requirement 1

Initial

Explain the meaning of the following terms.

Animal:

Invertebrate:

Vertebrate:

Mammal:

List three characteristics that distinguish mammals from all other animals.

- A.
- B.
- C.

Requirement 2

Initial

Explain how the animal kingdom is classified.

Explain where mammals fit in the classification of animals.

Classify three mammals from phylum through species:

Mammal:	Classification:
Mammal:	Classification:
Mammal:	Classification:

Requirement 3

Initial

Do ONE of the following:

Option A:

Spend three hours in each of two different kinds of natural habitats or at different elevations. List the different mammal species and individual members that you identified by sight or sign.

Area/Elevation 1:

Mammals identified:

Area/Elevation 2:

Mammals identified:

Tell why all mammals do not live in the same kind of habitat.

Option B:

Spend three hours on each of five days on at least a 25-acre area (about the size of 3¹/₂ football fields).

List the mammal species you identified by sight or sign.

Option C:

From study and reading, write a simple history of one nongame mammal that lives in your area.

Tell how this mammal lived before its habitat was affected in any way by humans.

Tell about its natural habitat.

Tell about how it reproduces.

Tell what it eats and what eats it.

Describe its dependency upon plants, upon other animals (including man), and how they depend upon it.

Tell how it is helpful or harmful to man.

Requirement 4

Initial

Do ONE of the following:

Option A:

Under the guidance of a nature center or natural history museum, make two study skins of rats or mice.

Skin 1:

Skin 2:

Tell the uses of study skins.

Tell the uses of mounted specimens.

Option B:

Take good pictures of two kinds of mammals in the wild. Record light conditions, film used, exposure, and other factors, including notes on the activities of the pictured animals. Show your photos to your counselor or attach copies to this work sheet.

Mammal:

Light Conditions:

Film Used:

Exposure:

Other:

Activities of Mammal:

Mammal:

Light Conditions:

Film Used:

Exposure:

Other:

Activities of Mammal:

Option C:

On another sheet of paper, write a life history of a native game mammal that lives in your area, covering the points outlined in requirement 3c. List your sources for this information below and attach a copy of the life history to this work sheet. Tell how it reproduces, what it eats, what eats it, and its natural habitat. Describe its dependency upon plants, upon other animals (including man), and how they depend upon it. Tell how it is helpful or harmful to man.

Option D:

Make and bait a tracking pit. Report what mammals and other animals came to the bait.

Option E:

Visit a natural history museum. Museum Visited:

Date:

Report on how specimens are prepared and cataloged.

What are the purposes of museums?

Option F:

Write a report of 500 words on a book you've read about a mammal species. Attach a copy of your report to this work sheet.

Option G:

Trace two possible food chains of carnivorous mammals beginning with soil through four stages to the mammal.

Beginning Stage: *Soil*
Stage 1:
Stage 2:
Stage 3:
Stage 4:
Mammal:

Beginning Stage: *Soil*
Stage 1:
Stage 2:
Stage 3:
Stage 4:
Mammal:

Requirement 5

Initial

Working with your counselor, select and carry out one project that will influence the numbers of one or more mammals.

What project did you and your counselor do?

What mammals did or will your project influence?

Describe what types of influences your project had or will have on the mammals.

Merit badge worksheets will not be accepted at the Council Office in place of the official Merit Badge Application Card. Those who do not complete all the requirements should take their

partially completed merit badge worksheet and their official application card to their local merit badge counselors for completion.