



Mammal Study

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33215.

Requirements revised: 2003, Workbook updated: November 2008.

Scout's Name: _____ Unit: _____

Counselor's Name: _____ Counselor's Ph #: _____

1. Explain the meaning of "animal," _____

"invertebrate," _____

"vertebrate," _____

and "mammal." _____

Name three characteristics that distinguish mammals from all other animals.

2. Explain how the animal kingdom is classified. _____

Explain where mammals fit in the classification of animals. _____

Classify three mammals from phylum through species.

Mammal 1 _____

Mammal 2 _____

Mammal 3 _____

3. Do ONE of the following:

a. Spend 3 hours in each of two different kinds of natural habitats or at different elevation. List the different mammal species and individual members that you identified by sight or sign. _____

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

b. Spend 3 hours on each of 5 days on at least a 25- acre area (about the size of 3 1/2 football fields). List the mammal species you identified by sight or sign.. _____

c. From study and reading, write a simple history of one non-game mammal that lives in your area. _____

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

Tell how it reproduces, _____

what it eats, _____

and its natural habitat. _____

Describe its dependency upon plants, _____

upon other animals (including humans), _____
_____ and how they depend upon it. _____

Tell how it is helpful or harmful to humankind. _____

4. Do ONE of the following:

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 _____

and mounted specimens respectively. _____

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.

Photo 1 Mammal: _____

Photo 2 Mammal: _____

Light conditions: _____

Light conditions: _____

Film Used: _____

Film Used: _____

Exposure: _____

Exposure: _____

Animal's Activities: _____

Animal's Activities: _____

Other factors: _____

Other factors: _____

c. Write a life history of a native game mammal that lives in your area, covering the points outlined in requirement 3C. List sources for this information

Native Game Animal: _____

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

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. _____

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

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

e. Visit a natural history museum. Report on how specimens are prepared and cataloged. _____

Explain the purposes of museums. _____

f. Write a report of 500 words on a book about a mammal species.

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

Possible food chain 1: _____

Soil: _____

Stage 1: _____

Stage 2 _____

Stage 3 _____

Stage 4 _____

Possible food chain 2: _____

Soil: _____

Stage 1: _____

Stage 2 _____

Stage 3 _____

Stage 4 _____

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

Online Resources *(Use any Internet resource with caution and only with your parent's or guardian's permission.)*

Boy Scouts of America: ► scouting.org ► [Guide to Safe Scouting](#) ► [Age-Appropriate Guidelines](#) ► [Safe Swim Defense](#)
 ► [Scout](#) ► [Tenderfoot](#) ► [Second Class](#) ► [First Class](#) 📺 [Rank Videos](#) ► [Safety Afloat](#)

Boy Scout Merit Badge Workbooks: usscouts.org -or- meritbadge.org Merit Badge Books: www.scoutstuff.org
 ► [Leave No Trace](#) ► [Outdoor Code](#) ► [Wilderness Use Policy](#) ► [Youth Protection Training](#)

Requirement Resources

- 1: Animal: <http://en.wikipedia.org/wiki/Animal> Invertebrate: <http://en.wikipedia.org/wiki/Invertebrate>
 Vertebrate: <http://en.wikipedia.org/wiki/Vertebrate>
 Mammal definition and three characteristics: <http://en.wikipedia.org/wiki/Mammal>
- 2: Animal kingdom classification: http://en.wikipedia.org/wiki/Biological_classification
 Examples: Dog: <http://en.wikipedia.org/wiki/Dog> Cat: <http://en.wikipedia.org/wiki/Cat> Fox: <http://en.wikipedia.org/wiki/Fox>
- 2c: Nongame: Bat: <http://en.wikipedia.org/wiki/Bat> Mole: <http://en.wikipedia.org/wiki/Mole> Rat: <http://en.wikipedia.org/wiki/Rat>
- 4b: Game animals: [http://en.wikipedia.org/wiki/Game_\(food\)#North_America](http://en.wikipedia.org/wiki/Game_(food)#North_America) Deer: <http://en.wikipedia.org/wiki/Deer>
 Rabbit: <http://en.wikipedia.org/wiki/Rabbit> Wild Boar: http://en.wikipedia.org/wiki/Wild_boar
- 4g: Food Chains: http://en.wikipedia.org/wiki/Food_chain
- 5: Mammal projects: http://meritbadge.org/wiki/index.php/Managing_Mammals

General Resources:

ExpertVillage.com Lesson Videos: 📺 [Rabbits](#)

📺 [Rats](#)

📺 [Terrariums](#)

📺 [Mice](#)

American Museum of Natural History: <http://www.amnh.org>

American Zoo and Aquarium Association: <http://www.aza.org>

Bat Conservation International: <http://www.batcon.org>

Conservation and Resource Center: <http://www.si.edu/crc>

Discover Magazine: <http://www.discover.com>

Nat. Fish and Wildlife Foundation: <http://www.nfwf.org>

National Wildlife Federation: <http://www.nwf.org>

U.S. Fish and Wildlife Service: <http://www.fws.gov>