



## MAMMAL STUDY MERIT BADGE WORKBOOK

This Scoutmaster Bucky Merit Badge Workbook is based off the 2020 Scouts BSA Requirements.

Consider also using the Mammal Study merit badge class preparation page for clarification and expectations when participating in a Scoutmaster Bucky merit badge opportunity (online or in-person).

<https://scoutmasterbucky.com/merit-badges/mammal-study/>

Scout's Name:

**REQUIREMENT 1:** Explain the meaning of "animal," "invertebrate," "vertebrate," and "mammal." Name three characteristic that distinguish mammals from all other animals.

**REQUIREMENT 2:** Explain how the animal kingdom is classified. Explain where mammals fit in the classification of animals. Classify three mammals from phylum through species.

**REQUIREMENT 3:** Do ONE of the following:



**REQUIREMENT 3A:** 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. Tell why all mammals do not live in the same kind of habitat.

**REQUIREMENT 3B:** Spend three hours on each of five 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.

**REQUIREMENT 3C:** From study and reading, write a simple life 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 how it reproduces, what it eats, and its natural habitat. Describe its dependency upon plants and other animals (including humans), and how they depend upon it. Tell how it is helpful or harmful to humankind.

**REQUIREMENT 4:** Do ONE of the following:



**REQUIREMENT 4A:** Under the guidance of a nature center or natural history museum, make two study skins of rats or mice. Tell the uses of study skins and mounted specimens respectively.

**REQUIREMENT 4B:** Take good pictures of two kinds of mammals in the wild. Record the date(s), time of day, weather conditions, approximate distance from the animal, habitat conditions, and any other factors you feel may have influence the animal's activity and behavior.

**REQUIREMENT 4C:** 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.

**REQUIREMENT 4D:** Make and bait a tracking pit. Report what mammals and other animals came to the bait.



**REQUIREMENT 4E:** Visit a natural history museum. Report on how specimens are prepared and cataloged. Explain the purposes of museums.

**REQUIREMENT 4F:** Write a report of 500 words on a book about a mammal species.

**REQUIREMENT 4G:** Trace two possible food chains of carnivorous mammals from the soil through four stages to the mammal.

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