

Mammal Studies Merit Badge Program at Huntley Meadows Park

Important information about how to prepare for a merit badge program at Huntley Meadows Park.

Merit badges are also supposed to be done with the buddy system. We encourage you to bring a friend. Also our policy is that the program will not proceed if there are not 2 or more adults present for the program especially those containing hikes. We will attempt to enlist adult volunteers from our center but this is not always possible so *prepare for the possibility* that you may have to stay for the program and not just drop off your scout. This will allow the instructor to concentrate more fully on the difficult task of imparting all the required information and assisting the boys individually if necessary, while other adults keep the atmosphere calm and productive.

These programs are 3-5 hours long be sure to pack a snack and water for your. Merit Badges are in general not designed to be completed in an afternoon therefore in order to complete the badge there is some work the scouts need to do outside of the workshop. We call this prework. We suggest this is done prior to the badge program date but we realize this is not always practical or possible, in these cases we will if requested sign partial cards and accept the assignments after the program of ask that your bring/ send back all the work and the card in order to sign off on the blue card all at once.

Please bring to class:

- Worksheet https://meritbadge.org/wiki/images/1/10/Mammal_Study.pdf
- Pework
- Blue card, pencil and clipboard
- Snack/drink
- Appropriate clothing to go outside to observe the weather

The prework that needs to be done is highlighted in red below: NONE for this badge

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.
3. Do ONE of the following:
 - 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. Tell why all mammals do not live in the same kind of habitat.
 - 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.
 - c. 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.
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. Tell the uses of study skins and mounted specimens respectively.

- b. 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 influenced the animal's activity and behavior.
 - 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.
 - d. Make and bait a 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.
5. Working with your counselor, select and carry out one project that will influence the numbers of one or more mammals.