



# Mammal Study Merit Badge Worksheet



*All materials will be provided by the park.*

1. Explain the meaning of "animal". \_\_\_\_\_

Invertebrate- \_\_\_\_\_

Vertebrate- \_\_\_\_\_

Mammal- \_\_\_\_\_

Name three characteristics that distinguish mammals from all other animals.

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\_\_\_\_\_  
\_\_\_\_\_

2. Explain how the animal kingdom is classified. \_\_\_\_\_

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\_\_\_\_\_  
\_\_\_\_\_  
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Explain where mammals fit in the classification of animals. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Classify one mammal in each of the following categories.

Flying- \_\_\_\_\_

Walking- \_\_\_\_\_

Aquatic- \_\_\_\_\_

Classify three mammals from phylum through species.

Mammal 1- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Mammal 2- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Mammal 3- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. What mammals can you find at Russell Cave? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. What mammals did the prehistoric people hunt at Russell Cave? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Explain what the prehistoric people would use each part of the animal (mammal) for.  
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6. 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. \_\_\_\_\_

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

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(b) From studying 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.

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What it eats and its natural habitat. \_\_\_\_\_

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Describe its dependency upon plants and other animals (including humans).

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And how they depend upon it. \_\_\_\_\_

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Tell how it is helpful or harmful to humankind. \_\_\_\_\_

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7. Name and describe the natural habitat for your favorite mammal of Russell Cave.

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8. Do **ONE** of the following:

- (a) Take good pictures of two kinds of mammals in the wild. Record light conditions, time of day, type of habitat, and other factors, including notes on the activities of the pictured animals.

Photo 1 mammal- \_\_\_\_\_

Light conditions- \_\_\_\_\_

Time of day- \_\_\_\_\_

Type of habitat- \_\_\_\_\_

Animal's activities- \_\_\_\_\_

\_\_\_\_\_

Other factors- \_\_\_\_\_

\_\_\_\_\_

Photo 2 mammal- \_\_\_\_\_

Light conditions- \_\_\_\_\_

Time of day- \_\_\_\_\_

Type of habitat- \_\_\_\_\_

Animal's activities- \_\_\_\_\_

\_\_\_\_\_

Other factors- \_\_\_\_\_

\_\_\_\_\_

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

Native game animal- \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What it eats and what eats it. \_\_\_\_\_

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Its natural habitat. \_\_\_\_\_

Describe its dependency upon plants and other animals (including man).

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And how they depend upon it. \_\_\_\_\_

Tell how it is helpful or harmful to man. \_\_\_\_\_

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(c) Visit a natural history museum. Report on how specimens are prepared and cataloged. \_\_\_\_\_

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Explain the purposes of museums. \_\_\_\_\_

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(d) Write a report of 500 words on a book about a mammal species.

(e) Trace two possible food chains of carnivorous mammals from soil through four stages to the mammal. \_\_\_\_\_

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9. Match skin, skull, or both to the correct animal. All of these animals can be found here at Russell Cave.

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