

**NatureMapping Program**  
**6<sup>th</sup> Grade Fossorial Mammals and Geology Project**

| Modules  | Life/Earth Sciences  | Math   | Technology   |
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| <b>1. Scientific question</b><br>How does the geology affect fossorial mammals such as badgers, striped skunks, pigmy rabbits, and bats? | Prediction: The geology of Waterville Plateau provides the habitat needed for mammals that live underground and among the rocks. |  |  |
| <b>2. Project Design (Identify a Setting within a System and Identify variables of Interest)</b><br>What you are going to do?            | Compare the geology and selected mammals of the Waterville Plateau<br><br>Set up soot trays to find tracks                       |  | Use different technological tools to record and map habitats and sightings |
| <b>3. Methods (Collect Data)</b><br>How you are going to do it?  | Visit Douglas Creek and Moses Coulee to identify soil types and inventory species  | Compare soil types and plants with mammals                       | Use GPS units, NatureTracker to record and map sightings                   |
| <b>4. Data Analysis - Results</b><br>What did the data tell you?   | There is a correlation between soil types/habitats with certain mammals  | Graphs provide reasons why mammals are found in certain habitats | Maps and graphs depicting data   |
| <b>5. Discussion (Use Evidence to Support an Explanation)</b> Why do you think you got the results that you did?                         | Rabbits are found in shrub steppe because....<br>Bats are found in cliffs because....  |  |  |

**NatureMapping Program**  
**6<sup>th</sup> Grade Fossorial Mammals and Geology Project**

| Modules  | Reading/Writing  | Art  | Social Studies  |
|--|--|--|---|
| <b>1. Scientific question</b><br>How does the geology affect fossorial mammals such as badgers, striped skunks, pigmy rabbits, and bats? | Prediction: The geology of Waterville Plateau provides the habitat needed for mammals that live underground and among the rocks. |  |   |
| <b>2 Project Design (Identify Setting within a System and Identify variables of Interest)</b><br>What you are going to do?               | Collect historic data through Internet, maps, fact sheets.<br><br>Write life history of the selected species.                    | Draw habitats and geological differences in Douglas Creek and Moses Coulee   | The geology of Waterville Plateau is part of the Columbia Basin ecoregion                                       |
| <b>3. Methods (Collect Data)</b><br>How you are going to do it?  | Literature research via the library, Internet<br><br>Use the template Waterville Elementary develop for the field guide          | Collect and draw samples of the plants, lichens, canyon itself.<br><br>Take close-up photographs of lichen and tunnels, tracks | Literature research to the ecoregion and vegetation zone of the Columbia Basin                                  |
| <b>4. Data Analysis - Results</b><br>What did the data tell you?   | Data show species have specific geological needs   | Draw associations for the field guide  | Specific habitats only occur in the Columbia Basin and Waterville Plateau support the mammals being researched. |
| <b>5. Discussion (Use Evidence to Support an Explanation)</b><br>Why do you think you got the results that you did?                      | Write the mammals pages for the field guide  |  |   |