

NatureMapping Program
6th Grade Fossorial Mammals and Geology Project

Modules	Life/Earth Sciences	Math	Technology
1. Scientific question 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.		
2. Project Design (Identify a Setting within a System and Identify variables of Interest) What you are going to do?	Compare the geology and selected mammals of the Waterville Plateau Set up soot trays to find tracks		Use different technological tools to record and map habitats and sightings
3. Methods (Collect Data) 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
4. Data Analysis - Results 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
5. Discussion (Use Evidence to Support an Explanation) Why do you think you got the results that you did?	Rabbits are found in shrub steppe because.... Bats are found in cliffs because....		

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Modules	Reading/Writing	Art	Social Studies
1. Scientific question 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.		
2 Project Design (Identify Setting within a System and Identify variables of Interest) What you are going to do?	Collect historic data through Internet, maps, fact sheets. 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
3. Methods (Collect Data) How you are going to do it?	Literature research via the library, Internet Use the template Waterville Elementary develop for the field guide	Collect and draw samples of the plants, lichens, canyon itself. Take close-up photographs of lichen and tunnels, tracks	Literature research to the ecoregion and vegetation zone of the Columbia Basin
4. Data Analysis - Results 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.
5. Discussion (Use Evidence to Support an Explanation) Why do you think you got the results that you did?	Write the mammals pages for the field guide		