

MAINE SCIENCE AND ENGINEERING STANDARDS

4-ESS2 Earth's Systems

4-ESS2-1 Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.

Further Explanation: Examples of variables to test could include angle of slope in the downhill movement of water, amount of vegetation, speed of wind, relative rate of deposition, cycles of freezing and thawing of water, cycles of heating and cooling, and volume of water flow. **Maine pot holes and frost heaves are evidence of the effects of weathering and explain why roads in Maine are repaved more frequently than roads in Florida.**

Planning and Carrying out Investigations, Earth Materials and Systems, Biogeology, Cause and Effect

4-ESS2-2 Analyze and interpret data from maps to describe patterns of Earth's features.

Further Explanation: Maps can include topographic maps of Earth's land and ocean floor, as well as maps of the locations of mountains, continental boundaries, volcanoes, and earthquakes. **Investigate the formation of the Appalachian Mountains and compare them to the formation of the Rocky or Cascade Mountain Ranges.**

Analyzing and Interpreting Data, Plate Tectonics and Large-Scale System Interactions, Patterns