



## **Geology (Grades 4-6)**

Students will discover likes and differences between rocks and minerals, the three kinds of rocks on earth and the rock cycle. Hike the local landscape to see the many different features of Minnesota's long and varied geological history.

### **Grade 4- Science Standards**

1. The Nature of Science and Engineering
  2. The Practice of Engineering
    1. Engineers design, create and develop structures, processes and systems that are intended to improve society and may make humans more productive.
      - 4.1.2.1.1 Describe the positive and negative impacts that the designed world has on the natural world as more and more engineered products and service are created and used.
3. Earth and Space Science
  1. Earth Structure and Processes
    3. Rocks are Earth materials that may vary in composition.
      - 4.3.1.3.1 Recognize that rocks may be uniform or made of mixtures of different minerals.
      - 4.3.1.3.2 Describe and classify minerals based on their physical properties.  
*For example:* Streak, luster, hardness, reaction to vinegar.

### **Grade 5 Science Standards**

3. Earth and Space Science
  1. Earth Structure and Processes
    2. The surface of the Earth changes. Some changes are due to slow processes and some changes are due to rapid processes.
      - 5.3.1.2.1 Explain how, over time, rocks weather and combine with organic matter to form soil.
      - 5.3.1.2.2 Explain how slow processes, such as water erosion, and rapid processes, such as landslides and volcanic eruptions, form features of the Earth's surface.