

Top Soil Tour

(8th - 12th grade)
2 class periods

Analyze the relationship between physical and chemical properties of soil, including texture, pH, nitrogen, phosphorus, and potassium. This lesson includes both lecture and provided laboratory experiment.

Grade Level Expectations in Science:

- 1.1.1 - Understand how to use physical and chemical properties to sort and identify substances.
- 1.1.5 - Understand how to classify rocks, soils, air and water into groups based on their chemical and physical properties.
- 1.3.3 - Understand the matter is conserved during physical and chemical changes.
- 1.3.4 - Understand the processes that continually change the surface of the Earth.
- 2.1.1 - Understand how to generate a question that can be answered through scientific investigation.
- 2.1.2 - Understand how to plan and conduct scientific investigations.
- 2.1.3 - Apply understanding of how to conduct a scientific explanation using evidence and inferential logic.
- 2.2.3 - Analyze inconsistent results from scientific investigations to determine how the results can be explained.
- 3.2.4 - Analyze how human societies' use of natural resources affects the quality of life and the health of ecosystems.

