

Tap Water Tour

(8th - 12th grade)

2 class periods

Study drinking water properties, including pH, chlorine, iron, copper, hardness and nitrates with water samples coming from student's homes or the school. This lesson includes both lecture and provided laboratory experiments.

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.
- 1.3.2 - Understand the matter is conserved during physical and chemical changes.
- 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.