

6th grade Properties of Matter Unit - Unit Plan

Helpful background knowledge from 5th grade:

- Our world is made mostly of matter.
- Matter has measurable mass and takes up space.

Core Objectives for the Unit

- Students will understand the basic properties that make substances on Earth different from each other. They will be able to explain why certain substances act differently from other substances.
- Students will investigate different elements, compounds and mixtures. They will investigate different properties, such as density, solubility, and boiling point. Students will use their knowledge of different properties to separate items in a mixture.
- Students will identify the basic parts of the atom, and understand what makes atoms different from each other.
- Students will practice the entire inquiry process, including asking questions, making scientific observations, creating replicable procedures, collecting and analyzing data and drawing conclusions. Students will analyze nonfiction texts, using mark-up strategies. They will take notes from class and readings using several different formats. They will use multiple nonfiction sources to research a topic, and present information in their own words. Students will complete a long-term project at home.
- Students will read information from a chart, and organize observations on a chart. They will be able to read and create bar and line graphs.

Unit Assessments

IA 1 - Properties of Matter

Class activities

Weekly Quizzes

Lab Activities: 6

Nonfiction reading activities

Element Research Project

Atomic Model

Exit Slips