#2 Matter and Its Interactions

Content Area:	Science
Course(s):	Science 5
Time Period:	Undefined
Length:	Undefined
Status:	Published

Unit Overview

Essential Questions

What are the properties of matter?

What makes up matter?

What are solids, liquids, and gases?

What are mixtures and solution?

How does matter change?

Content

Atoms and molecules make up matter.

Solids, liquids and gases are states of matter.

Skills

Recognize that all things are made of particles called atoms and molecules, which cannot be seen without using magnifying instruments.

Describe properties of states of matter and identify phase changes.

Recognize basic properties of matter.

Describe properties of solutions and explain that mixtures can be separate based on properties of their parts.

Recognize that many physical and chemical changes are affected by temperature.

Assessments

Interactive Try It activities

Explore It activities

lesson outlines

My Planet Diary Fun Facts

Labs TBD

tests/quizes

Lessons/Learning Scenarios

Chapter 10

Lesson 2: Explore It pg. 424

Read pages 425-429- various teacher hands on whole group activities:

why do certain liquids float on top of each other.

solid/liquids/gases with use of balance scales- describe and identify why mass and weight are not the same thing.

students identify and explore how to measure gas- use of graduated cylinders/water/straws.

bag it- several objects in bags/blindfold/describe texture and why texture is an important characteristic of solids

Lesson 3:

Explore It pg. 430

Read pages 431-435- whole group discussion

Boiling point pg. 434 mimic lab and teacher demonstrates various liquid boiling points- students table and answer related questions

Lesson 4:

Read pages 436-441- whole group discussion

Lesson 5:

Read pages 443-447- whole group discussion

Explore It activity page 442

Students make green slime and review steps of ingredients and what properties they each have- combine and talk about it

teacher uses flame and wax- what type of change? why?

teacher combines two liquids to form a color- what type of change? why? pg. 444-445

culminating activity: Investigate It! pages 448-449

Standards

SCI.5.5-PS1-1	Develop a model to describe that matter is made of particles too small to be seen.
SCI.5.5-PS1-4	Conduct an investigation to determine whether the mixing of two or more substances results in new substances.
SCI.5.5-PS1-3	Make observations and measurements to identify materials based on their properties.
SCI.5.5-PS1-2	Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.

Resources