

Topic: Science Grade Kindergarten Structure and Properties of Matter

Days: 45

Subject(s):

Grade(s):

**Key Learning:** Objects are made of different things and have different interactions with other objects.



Unit Essential Question(s):

**What do we use to find out about objects? How are they similar and different?**



Concept:

Different kinds of matter exist (e.g., wood, metal, water) and many of them can be either solid or liquid, depending on temperature.

Concept:

Matter can be described and classified by its observable properties (e.g., visual, aural, textural), by its uses, and by whether it occurs naturally or is manufactured.



Lesson Essential Question(s):

How can we make observations that matter exists as different materials? (A)

How can we describe and classify matter by their observable properties and their uses? (A)

How can we plan and carry out investigations to test the idea that warming some materials causes them to change from solid to liquid and cooling causes them to change from liquid to solid? (ET)

Lesson Essential Question(s):

How can we make observations that matter exists as different materials? How can we describe and classify matter by their observable properties and their uses? (A)

How can we distinguish between opinions and evidence in determining whether objects in a given set occur naturally or are manufactured? (ET)



Vocabulary:

matter, solid, liquid, warming, cooling

Vocabulary:

opinion, natural, manufactured

Additional Information:

Clarification Statement: Observable properties could include color, texture, and hardness.

Clarification Statement: Students could investigate substances like butter, chocolate, ice, cheese, or ice cream. Students should be able to have the opportunity to see that not all substances phase changes with temperature.

Assessment Boundry: Only a qualitative description of tempertures should be used.

Clarification Statement: Examples of natural and manufactured objects could be a wooden dowel which has been made smooth and a tree limb which is not naturally smooth.

Attached Document(s):

Vocab Report for Topic: Science Grade Kindergarten Structure and Properties of Matter  
Subject(s):

Days: 45

Grade(s):

**Concept:** Different kinds of matter exist (e.g., wood, metal, water) and many of them can be either solid or liquid, depending on temperature.

matter -  
solid -  
liquid -  
warming -  
cooling -

**Concept:** Matter can be described and classified by its observable properties (e.g., visual, aural, textural), by its uses, and by whether it occurs naturally or is manufactured.

opinion -  
natural -  
manufactured -