

Properties of Matter

Grade Levels: K-2

Program Description:

Students investigate properties of different materials, both solid and liquid. They then explore oobleck, a polymer, and carry out a design challenge to create a vehicle that will land on this unusual substance.

Massachusetts Curriculum Standards:

Kindergarten: Physical Science

PS1. Matter and its Interactions

K-PS1-1(MA). Investigate and communicate the idea that different kinds of materials can be solid or liquid depending on temperature.

Grade 1: Technology/Engineering

ETS1. Engineering Design

1.K-2-ETS1-2. Generate multiple solutions to a design problem and make a drawing (plan) to represent one or more of the solutions.

Grade 2: Physical Science

PS1. Matter and its Interactions

2-PS1-1. Describe and classify different kinds of materials by observable properties of color, flexibility, hardness, texture, and absorbency.

2-PS1-2. Test different materials and analyze the data obtained to determine which materials have the properties that are best suited for an intended purpose.

Grade 2: Technology/Engineering

ETS1. Engineering Design

2.K-2-ETS1-3. Analyze data from tests of two objects designed to solve the same design problem to compare the strengths and weaknesses of how each object performs.



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