Properties of Materials and Mixtures

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Science Unit Plan

Second Grade

May 2015

State Standards

P.PM.02.12 Describe objects and substances according to their properties of color, size, shape, texture, hardness, liquid or solid, sinking or floating.

P.PM.02.41 Recognize that some objects are composed of a single substance (water, sugar, salt) and others are composed of more than one substance (salt and pepper, mixed dry beans).

Unit Outcomes

TLW expand understanding of describing matter to include texture, color, weight, hardness, etc.

TLW use his/her sense to describe the properties of objects

TLW classify objects as single substance or mixture and explore various ways of separating mixtures

Lessons

1. Introduction/World in a Box

-TLW observe properties of objects and use deductive reasoning to match objects to their properties.

-Formative assessment: quality of description of property

1. 1&1, 2&2

-TLW classify objects according to their material.

1. Single Substance or Mixture?

-TLW identify substances as a single substance or a mixture and use their senses to describe it.

1. Float or Sink?

-TLW predict and then differentiate objects that float versus objects that sink, and compare and contrast the properties of those objects.

-Formative assessment: Tell me something you learned today (exit slip)

1. Magnets

-TLW identify magnetic objects in the room through exploration and generalize what those objects have in common to make them magnetic.

Assessment

Formative: listed above

Summative: District-wide assessment