



Science Interns: Matter 5th Grade Classroom Module

Program Summary

In this four-lesson module students study properties of matter and conservation of matter.

Lesson 1: Students test materials to discover their properties to help identify a mystery powder.

Lesson 2: Students use properties of matter to recognize and describe substances before and after mixing.

Lesson 3: Students conduct two experiments that show the total weight of matter is conserved through changes in shape and temperature.

Lesson 4: Students are assigned their teaching groups and practice activities that they will later present to younger students.

Phenomena

Substances in different states of matter can be combined to make new substances and different states of matter.

Materials can be identified by their observable properties.

Total weight of matter is conserved regardless of any changes that occur.

Next Generation Science Standards

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.

5-PS1-3 Make observations and measurements to identify materials based on their properties.

5-PS1-4. Conduct an investigation to determine whether the mixing of two or more substances results in new substances.

Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
Using Mathematics & Computational Thinking	PS1.A Structure and Properties of matter	Scale, Proportion, and Quantity
Planning and Carrying Out Investigations	PS1.B Chemical Reactions	Cause and Effect
Constructing Explanations and Designing Solutions		

Common Core State Standards

ELA-LITERACY.RST.5.4. Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area.

CCSS.ELA-LITERACY.W.5.2 Write informative/explanatory texts to examine a topic and convey ideas and information clearly.

CCSS.ELA-LITERACY.SL.5.1 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.

Date: _____

Asombro staff: _____