



Mystery Matter
5th Grade

Overview

Students gather evidence and conduct investigations to help Ricardo and his grandmother figure out which unlabeled item in the pantry contains the baking soda they need to make cookies. They conduct investigations to determine if unknown materials (powders, minerals, and metals) can be identified based on observable characteristics.

Phenomenon

Help Ricardo and his grandmother find which unlabeled jar contains baking soda. Can materials can be identified by their observable properties?

Next Generation Science Standards

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

[Clarification Statement: Examples of materials to be identified could include baking soda and other powders, metals, minerals, and liquids. Examples of properties could include color, hardness, reflectivity, electrical conductivity, thermal conductivity, response to magnetic forces, and solubility; density is not intended as an identifiable property.]

Asombro lessons are aligned with the three-dimensional learning model of the Next Generation Science Standards.

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

Date: _____

Asombro staff: _____