



**Mystery Matter**  
5<sup>th</sup> 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.

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

**Asombro Lesson can accompany 5<sup>th</sup> Grade STEMScopes – Bundle 4 Scope 2**

*This lesson would best be incorporated before **or** after the Explore activities for Bundle 4 Scope 2 within STEMScopes.*

Date: \_\_\_\_\_

Asombro staff: \_\_\_\_\_