"Ch-ch-ch-changes!"

First person to name the reference correctly gets a ticket!

BACKGROUND:

Changing the state or shape of matter is an example of a **physical change**. Physical changes alter the form of a substance, but not its chemical composition or identity. Crushing a can and tearing paper are examples of physical changes. In a **chemical change**, however, the molecules in a substance combine or break apart to form a new substance. Burning wood and rusting iron are examples of chemical changes. Matter can be described based on its **physical** and **chemical properties**. In this lab, students will describe four substances based on their properties and the changes they undergo.

MAT	<u>ERIALS:</u>	Baking S	Soda	Vinegar	Baking Powder	Corn Starch	Goggles	Sugar	
Spat	ula Sti	rring Rod	Dispo	sable Pipets	Water	TransparencyIodi	ne solution		
PRO	CEDURES	<u>:</u>							
1	Place baking power into each square in the row labeled Baking Powder. Do not place any liquids								
	on the first box with Baking Powder. This will be used as a control.								
2	Use a clean dropper for each part and make sure you clean your stirring rod each time you use it.								
_	Record your observations for every part in Data Table #1								
3	Add water onto the second square a few drops at a time, observe, and record your observations.								
	Use a stirring rod to stir if necessary.								
4	Add vinegar onto the third square a few drops at a time, observe, and record your observations.								
	Use a stirring rod to stir if necessary.								
	Place 5 drops of iodine solution to the fourth square of baking powder. Record the results in the								
5	table below. Use a stirring rod to stir if necessary. Caution : Be careful when handling iodine. It								
	will stain your skin and clothes.								
6	Repeat steps 3-5 for each of the substances. Clean the spatula (or spoon) for each substance.								
7	Fill in yo	ur Data An	alysis T	able using th	e terms listed abo	ve the table and he	lp from Mrs. F	Farmer	

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