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Student Exploration: Mystery Powder Analysis

Vocabulary: Biuret solution, iodine solution, litmus paper, vinegar

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

A white powder is found spilled on the kitchen floor of a crime scene. A similar powder is found on the shoes of a suspect in the crime.

1. What are some powders that you might find on the kitchen floor?

Sugar, salt, baking soda, flour.

2. How could you tell if the powder was salt, sugar, flour, or baking soda?

If you had no other way of testing them, you could go by taste.

Gizmo Warm-up

The *Mystery Powder Analysis* Gizmo allows you to use a variety of tests to identify unknown substances. To start, drag the **Baking soda** test tube into the "Place tube here" area.

1. Under **Appearance**, click **Test**. Is baking soda a fine powder (no visible grains), or is it coarse (visible grains)?

There are no discernible granules in the powder.



2. **Litmus paper** is an indicator of acids and bases. Under **Litmus test**, click **Test**. Which of the following results occurred? (highlight the answer.)

A. Both strips red (acid)

C. One red, one blue strip (neutral)

B. Both strips blue (base)

3. Some substances react with **vinegar** to produce carbon dioxide, visible as bubbles.

Under **Vinegar test**, click **Test**. Does the vinegar bubble? Yes

4. The blue **Biuret solution** turns bright purple in the presence of proteins. **Iodine solution** turns dark purple in the presence of starch. Try each of these tests.

Does baking soda contain protein? No

Does baking soda contain starch? No

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TD Snyder



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