

HOME/SCHOOL CONNECTION

INVESTIGATION 3: FIZZ QUIZ

Baking soda (sodium bicarbonate— NaHCO_3) reacts with acid. One of the products is carbon dioxide (CO_2). You can use a baking-soda solution to test unknown liquids to see if they are acids. If CO_2 bubbles form when you mix the two solutions, the unknown probably contains an acid.

Materials

- Baking soda
- 1 Tablespoon
- 1 Measuring cup
- Water
- Unknown liquids
- 1 Small glass for testing
- 1 Spoon

Directions

1. Put 1 heaping tablespoon of baking soda in the measuring cup.
2. Add water to the 1-cup level. Stir to dissolve the soda.
3. Put a small amount of the baking-soda solution in a glass.
4. Add an equal amount of unknown solution. Record your observations.

Things to try

Fruit juices (particularly citrus)

Vinegar

Vitamin C dissolved in water

Coffee

Soda drinks

Unknown	Observations