

HOME/SCHOOL CONNECTION

Investigation 4: 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 liquids to see if they are acids. If CO_2 bubbles form when you mix the two solutions, the liquid probably contains an acid.

Materials

- Baking soda
- Tablespoon
- Measuring cup
- Water
- Assorted liquids
- Small glass
- Spoon

Directions

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

Things to try

- Fruit juices (particularly citrus)
- Vinegar
- Vitamin C dissolved in water
- Coffee
- Soft drinks

NOTE: Students should be supervised by an adult while doing this activity.

Liquid	Observations