Baking soda and calcium chloride Procedure

- 1. Use a graduated cylinder or a plastic tablespoon to measure 15 mL (1 tablespoon) of the universal indicator solution and pour it into the second clear plastic cup.
- 2. Place a thermometer in the indicator solution and record the initial temperature on the activity sheet.
- 3. In a separate small cup, combine 1/2 teaspoon of calcium chloride and 1/2 teaspoon of baking soda.
- 4. While the thermometer is still in the indicator solution, pour the calcium chloride and baking soda mixture into the second indicator solution. Observe and record any color changes and/or temperature changes that occur.



WHAT DID YOU OBSERVE?

2. What changes did you observe when you mixed baking soda with calcium chloride in the universal indicator solution?

EXPLAIN IT WITH ATOMS & MOLECULES

3. You mixed citric acid with baking soda, and in a separate test you mixed calcium chloride with baking soda. Why do you think the reactions you observed were different?

TAKE IT FURTHER

You saw a demonstration in which an Alka-Seltzer tablet was placed in a universal indicator solution.

4. What changes did you observe?



5. Was this reaction similar to what you expected? Why or why not?