

Formative Assessment #5

Concept(s)

Assessed

A chemical change may occur when one substance is mixed with another substance. There are five indicators of chemical change: gas production, color change, temperature change, precipitate formation, or light production.

Time

30 minutes

Materials

Individual

Prompt

Advance

Preparation

1. Duplicate prompt for each student

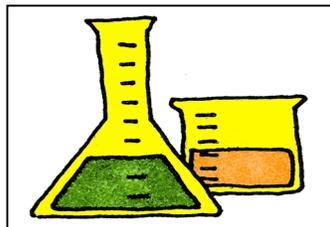
Procedure:

1. Tell students they will have an opportunity to share what they understand about chemical change.
2. Distribute the prompt to each student and ask him/her to do his/her best work.

Name: _____

PROMPT

Directions: Circle the best answer.



1. All of the following are physical changes except
 - a. melting chocolate
 - b. making ice cubes
 - c. tearing paper
 - d. baking a cake

2. List at least three indicators of a chemical reaction

3. Marisol put two liquids together in a beaker, and the resulting solution turns a bright pink. What has occurred?
 - a. a chemical reaction
 - b. a mixture
 - c. a physical change
 - d. a phase change

4. Why is it important to only change one variable at a time? *Remember the kitchen chemistry lab.

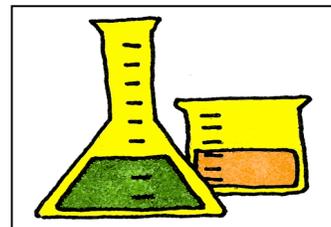
5. Watch as your teacher combines baking soda and vinegar in a bottle. Describe what happens. What is the new product?

Word Bank				
product	chemical reaction	liquid	gas	solution

Name: _____

Formative Assessment #5
Expected Student Responses for a High Level Response

Directions: Circle the best answer.



1. All of the following are physical changes except
 - a. melting chocolate
 - b. making ice cubes
 - c. tearing paper
 - d. baking a cake

2. List at least three indicators of a chemical reaction:

Production of gas (bubbles), temperature change, color change

3. Marisol put two liquids together in a beaker, and the resulting solution turns a bright pink. What has occurred?

- a. a chemical reaction
- b. a mixture
- c. a physical change
- d. a phase change

4. Why is it important to only change one variable at a time? *Remember the kitchen chemistry lab.

It is important to change only one variable at a time to make sure that it is a fair test. In an experiment we want to find out how changing one variable (the manipulated or independent variable) at a time will change the results (the responding or dependent variable).

5. Watch as your teacher combines baking soda and vinegar in a bottle. Describe what happens. What is the new product?

Word Bank				
product	chemical reaction	liquid	gas	solution

When the vinegar, a liquid, mixes with baking soda, a solid, they form a solution. A chemical reaction occurs because a new product in the form of a gas is produced.