

Chemical vs. Physical Change Experiment



Chemical vs. Physical Change Experiment

Name: _____

Objective

To observe and compare the reactions of vinegar with baking soda and water vinegar with water to determine if a chemical or physical change occurs.

Materials

- 12 oz. cup
- Vinegar
- Baking soda
- Water
- Spoon
- Measuring spoon
- Worksheet for observations

Hypothesis

1. What do you think will happen when vinegar is mixed with baking soda?

2. What do you think will happen when vinegar is mixed with water?

Procedure

1. Pour two tablespoons of vinegar into each cup.
2. In the first cup, add one teaspoon of baking soda and observe.
3. In the second cup, add one teaspoon of water and observe.
4. Record your observations below.

Answer Key: Chemical vs. Physical Change Experiment

Hypothesis (Answers will vary, but sample responses)

- When vinegar is mixed with baking soda, I think it will bubble or fizz.

• Vinegar is mixed with water. I think it will just mix together without any fizz.

or

gas is **baking soda**. There were bubbles forming and gas formed. It looked like a volcano or volcano.

gas is **Water**. The liquid just mixed. Nothing really happened.

are bubbles bubbles or gas formation?

• In the reaction with baking soda, it bubbled and fizzed.

either reaction creates a new substance? How do you know?

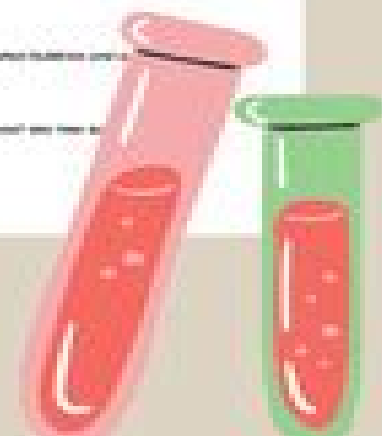
• The reaction with baking soda made a gas (carbon dioxide). That means a new substance was created.

is reaction new is chemical change? Why?

• reaction between vinegar and baking soda. It created bubbles and gas so chemical change happened.

is reaction new is physical change? Why?

• vinegar and water. They just mixed together without any new thing.



Chemistry 130 Experiment 3 Physical And Chemical Change

Clemens Wendtner



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Chemical News and Journal of Physical Science William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1888 *A Text-book of Inorganic Chemistry for University Students* James Riddick Partington,1925
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