



Name: _____

Date: _____

PHASES OF MATTER

Physical or Chemical?

IDENTIFICATION

Do you know the difference between a physical change and a chemical change? The difference is based on whether there is a change in the state of matter or a chemical reaction.

Physical changes occur with forces, like motion, temperature, and pressure. For example, when energy (heat) is added to ice cream, it melts. This example caused a change in the state of matter, but the chemical composition is still the same.

Chemical changes occur on a much smaller scale. When a chemical change occurs, the object's molecules change and a new type of substance is formed. For example, when a piece of iron rusts, you notice the change only over a long period of time. The molecules of iron have combined with oxygen in the air to become iron oxide.

DIRECTIONS: Identify each change as a physical change or a chemical change. Then, explain why you chose that answer.

1. ice melting _____

2. toast burning _____

3. frying an egg _____

4. fireworks exploding _____

5. metal corroding _____

6. mowing the lawn _____

7. food spoiling _____

8. glass breaking _____
