



Chemical and Physical Changes

Name: _____

Date: _____

Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. Bubbles forming when vinegar is poured on baking soda show that a _____ has been produced, a sign of chemical change.
2. When a glow stick lights up after bending, the production of _____ is a sign of a chemical change.
3. If a reaction makes the test tube feel warmer, energy is being released as _____, indicating a chemical change.
4. A sour or rotten _____ from food going bad is another clue that a chemical change has occurred.
5. When two clear liquids are mixed and a solid forms at the bottom, that solid is called a _____ and signals a chemical change.
6. The law of _____ of matter says that the total mass before and after a chemical reaction stays the same.
7. If 10 grams of baking soda reacts with 20 grams of vinegar in a sealed bag, the total mass after the reaction is _____ grams.
8. The starting substances in a chemical reaction are called _____, and the substances that form are called products.
9. A surprising _____ change in a mixture, like clear liquids turning blue, is one of the most obvious signs of a chemical reaction.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Bubbles in vinegar and baking soda	→ _____	Light produced as a sign of chemical change
Glow stick lighting up	→ _____	Conservation of matter in a reaction

Part A: Fill in the Blank

Write the missing word or number on each line.

1. Bubbles forming when vinegar is poured on baking soda show that a gas has been produced, a sign of chemical change.
2. When a glow stick lights up after bending, the production of light is a sign of a chemical change.
3. If a reaction makes the test tube feel warmer, energy is being released as heat, indicating a chemical change.
4. A sour or rotten smell from food going bad is another clue that a chemical change has occurred.
5. When two clear liquids are mixed and a solid forms at the bottom, that solid is called a precipitate and signals a chemical change.
6. The law of conservation of matter says that the total mass before and after a chemical reaction stays the same.
7. If 10 grams of baking soda reacts with 20 grams of vinegar in a sealed bag, the total mass after the reaction is 30 grams.
8. The starting substances in a chemical reaction are called reactants, and the substances that form are called products.
9. A surprising color change in a mixture, like clear liquids turning blue, is one of the most obvious signs of a chemical reaction.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Bubbles in vinegar and baking soda	→	<u>Gas produced as a sign of chemical change</u>	Light produced as a sign of chemical change
Glow stick lighting up	→	<u>Light produced as a sign of chemical change</u>	Conservation of matter in a reaction
10 g + 20 g sealed reaction			Reactants forming a new