



Chemical and Physical Changes

Name: _____

Date: _____

Grade: Grade 5

Part A: Multiple Choice

Circle the best answer for each question.

1. If you add a few drops of food coloring to a glass of water, what type of change has occurred and why?

- A) Physical change because the dye spreads but stays the same substance
- B) Chemical change because the water turns a new color
- C) Physical change because new molecules are formed in the water
- D) Chemical change because oxygen bubbles appear from the dye

2. A student lights a birthday candle and the wax slowly drips down the side. Which statement best describes the changes?

- A) Only a chemical change occurs as the wax drips
- B) Only a physical change occurs from the burning wick
- C) Both: melting wax is physical, burning wick is chemical
- D) Neither change occurs because the candle stays a candle

3. Predict what happens when you mix milk and lemon juice and the milk forms small white clumps.

- A) A physical change because the clumps are still liquid milk
- B) A chemical change because new substances called curds form
- C) A physical change because lemon juice only dissolves in milk
- D) A chemical change but no new substance is created

4. A scientist mixes two clear liquids and a yellow solid suddenly forms at the bottom. What does this tell her?

- A) A physical change happened because liquids changed colors
- B) A physical change happened because solids formed naturally
- C) A chemical change happened because a new substance appeared
- D) No change occurred since the liquids are still liquids

Part B: Fill in the Blank

Write the correct answer on each line.

1. An apple slice turning brown after sitting in air is caused by _____, a chemical reaction with oxygen.
2. Burning a candle wick is a type of chemical change called _____, which needs oxygen to occur.
3. Bending a paperclip changes its shape but not its substance, making this a _____ change.

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Part B: Fill in the Blank

Write the correct answer on each line.

1. An apple slice turning brown after sitting in air is caused by oxidation, a chemical reaction with oxygen.

2. Burning a candle wick is a type of chemical change called combustion, which needs oxygen to occur.

3. Bending a paperclip changes its shape but not its substance, making this a physical change.