



Properties of Matter

Name: _____

Date: _____

Grade: Grade 5

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence:

Melting ice is a chemical change because the ice turns into a completely different substance.

Rewrite: _____

2. Fix the sentence:

Cutting paper is a chemical change because the paper looks different after you cut it.

Rewrite: _____

3. Fix the sentence: Baking a cake is a physical change because you can still see the flour and eggs.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. In a physical change, no new _____ is formed and the material stays the same.
2. Bubbles forming during a reaction can be a sign of a _____ change.
3. Dissolving sugar in water is a _____ change because the sugar molecules remain the same.
4. Burning wood produces ash and smoke, which shows that a _____ change has occurred.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. List three signs that a chemical change has taken place.

2. Explain why freezing water is a physical change even though it looks very different from liquid water.

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence:

Melting ice is a chemical change because the ice turns into a completely different substance.

Rewrite: **Melting ice is a physical change because the water molecules stay the same even though the state changes.**

2. Fix the sentence:

Cutting paper is a chemical change because the paper looks different after you cut it.

Rewrite: **Cutting paper is a physical change because the paper is still paper even though its shape changed.**

3. Fix the sentence: Baking a cake is a physical change because you can still see the flour and eggs.

Rewrite: **Baking a cake is a chemical change because heat causes the ingredients to form a new substance.**

Part B: Fill in the Blank

Write the missing word or number on each line.

1. In a physical change, no new **substance** is formed and the material stays the same.
2. Bubbles forming during a reaction can be a sign of a **chemical** change.
3. Dissolving sugar in water is a **physical** change because the sugar molecules remain the same.
4. Burning wood produces ash and smoke, which shows that a **chemical** change has occurred.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. List three signs that a chemical change has taken place.

Three signs of a chemical change are a color change, gas bubbles being produced, and a temperature change such as the mixture getting warmer or cooler without being heated.

2. Explain why freezing water is a physical change even though it looks very different from liquid water.
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