



Chemical and Physical Changes

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:

When ice melts into water, the ice turns into a brand new substance with new properties.

Rewrite: _____

2. Fix the sentence:

Dissolving sugar in water creates a chemical change because the sugar disappears.

Rewrite: _____

3. Fix the sentence:

Cutting a piece of paper into smaller pieces makes a chemical change happen.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. When water freezes into ice, this is called a _____ change because no new substance forms.
2. Boiling water turns into water vapor, a gas; this state change is _____ because we can cool the vapor back into water.
3. When salt mixes evenly into water, the salt has _____ in the water and forms a solution.
4. Folding a sheet of paper into an airplane changes its _____ but not the material it is made of.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain why melting an ice cube is a physical change for a Grade 5 science class.

2. Give two examples of physical changes you might see at home and explain why each one is physical.

Part A: Fix the Sentence

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

1. Fix the sentence:

When ice melts into water, the ice turns into a brand new substance with new properties.

Rewrite: When ice melts into water, it stays the same substance — water — just in a different state.

2. Fix the sentence:

Dissolving sugar in water creates a chemical change because the sugar disappears.

Rewrite: Dissolving sugar in water is a physical change because the sugar particles spread out but stay sugar.

3. Fix the sentence:

Cutting a piece of paper into smaller pieces makes a chemical change happen.

Rewrite: Cutting a piece of paper into smaller pieces is a physical change because the paper is still paper.

Part B: Fill in the Blank

Write the missing word or number on each line.

1. When water freezes into ice, this is called a physical change because no new substance forms.
2. Boiling water turns into water vapor, a gas; this state change is reversible because we can cool the vapor back into water.
3. When salt mixes evenly into water, the salt has dissolved in the water and forms a solution.
4. Folding a sheet of paper into an airplane changes its shape but not the material it is made of.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain why melting an ice cube is a physical change for a Grade 5 science class.

Melting an ice cube is a physical change because the ice and the water are made of the same substance — water molecules. Only the state changes from solid to liquid; no new material is formed, and the water can be frozen again.

2. Give two examples of physical changes you might see at home and explain why each one is physical.
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