



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: Crushing a can into a flat shape are a chemical change.

Rewrite: _____

2. Fix the sentence: When water freezes into ice, it becomes a brand new substance.

Rewrite: _____

3. Fix the sentence: Mixing sugar into water make a chemical change happen.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

- Melting butter on a pan is a _____ change because the butter is still butter, only softer.
- Tearing paper into strips changes its shape but not its _____, which stays the same.
- When a puddle dries up after the rain, the water _____ into vapor without changing identity.
- Crushing chalk into powder is a _____ change since the powder is still chalk.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain why mixing sand and gravel together is a physical change, not a chemical change.

2. Describe how freezing juice into a popsicle is a physical change at the molecular level.

Part A: Fix the Sentence

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

1. Fix the sentence: Crushing a can into a flat shape are a chemical change.

Rewrite: **Crushing a can into a flat shape is a physical change.**

2. Fix the sentence: When water freezes into ice, it becomes a brand new substance.

Rewrite: **When water freezes into ice, it stays the same substance in a new state.**

3. Fix the sentence: Mixing sugar into water make a chemical change happen.

Rewrite: **Mixing sugar into water makes a physical change happen.**

Part B: Fill in the Blank

Write the missing word or number on each line.

- Melting butter on a pan is a **physical** change because the butter is still butter, only softer.
- Tearing paper into strips changes its shape but not its **substance**, which stays the same.
- When a puddle dries up after the rain, the water **evaporates** into vapor without changing identity.
- Crushing chalk into powder is a **physical** change since the powder is still chalk.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain why mixing sand and gravel together is a physical change, not a chemical change.

Mixing sand and gravel is a physical change because no new substance forms. The sand is still sand, and the gravel is still gravel. You can sift them apart and get back exactly what you started with, which proves their chemical identities never changed.

2. Describe how freezing juice into a popsicle is a physical change at the molecular level.

Freezing juice into a popsicle is a physical change because the juice molecules slow down and lock into a solid pattern, but they are still juice molecules. No new substances form. If the popsicle melts, you get the same juice back, showing the change is only in state, not identity.
