



Rocks and Minerals

Name: _____

Date: _____

Grade: Grade 4

Part A: Fix the Sentence

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

1. Fix the sentence:

Obsidian is a sedimentary rock formed from layers of dark mud at the bottom of the ocean.

Rewrite: _____

2. Fix the sentence: Weathering is the process of gluing sediment together to form new rocks.

Rewrite: _____

3. Fix the sentence: Slate is an igneous rock that forms when a volcano erupts underwater.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

- Basalt is an igneous rock that forms when lava cools _____ on Earth's surface.
- Wind, water, and ice break rocks apart through a process called _____.
- Fossils of ancient sea creatures found on a mountaintop tell us the rock was once at the bottom of an _____.
- Pyrite is called fool's gold because its _____ color looks like real gold.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain one way a metamorphic rock can become a sedimentary rock.

2. Why can two minerals that look the same color still be different minerals?

Part A: Fix the Sentence

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

1. Fix the sentence:

Obsidian is a sedimentary rock formed from layers of dark mud at the bottom of the ocean.

Rewrite: **Obsidian is an igneous rock that forms when lava cools very quickly on Earth's surface, creating a smooth, glassy texture.**

2. Fix the sentence: Weathering is the process of gluing sediment together to form new rocks.

Rewrite: **Weathering is the process of breaking rocks into smaller pieces by wind, water, ice, or plant roots. Cementation is the process of gluing sediment together.**

3. Fix the sentence: Slate is an igneous rock that forms when a volcano erupts underwater.

Rewrite: **Slate is a metamorphic rock that forms when shale is changed by heat and pressure deep inside the Earth.**

Part B: Fill in the Blank

Write the missing word or number on each line.

- Basalt is an igneous rock that forms when lava cools **quickly** on Earth's surface.
- Wind, water, and ice break rocks apart through a process called **weathering**.
- Fossils of ancient sea creatures found on a mountaintop tell us the rock was once at the bottom of an **ocean**.
- Pyrite is called fool's gold because its **yellow** color looks like real gold.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain one way a metamorphic rock can become a sedimentary rock.

A metamorphic rock can be pushed to Earth's surface where weathering and erosion break it into small pieces. These pieces, called sediment, are carried by water and deposited in layers that are pressed and cemented into sedimentary rock over time.
