

Rock Cycle Worksheet

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Part 1: Building a Foundation

What type of rock is formed from the solidification of molten magma?

Hint: Think about the different types of rocks and their formation processes.

- Sedimentary
- Metamorphic
- Igneous
- Sediment

Which of the following are examples of sedimentary rocks?

Hint: Consider the types of rocks formed through sedimentation.

- Limestone
- Granite
- Sandstone
- Basalt

Define the rock cycle in your own words.

Hint: Think about the processes that rocks undergo over time.

List two processes involved in the formation of metamorphic rocks.

Hint: Consider the conditions that lead to metamorphism.

1. Process 1

2. Process 2

Which process involves the breakdown of rocks into smaller particles by natural forces?

Hint: Think about the forces of nature that affect rocks.

- Melting
- Weather and Erosion
- Compaction
- Uplift

Part 2: Application and Analysis

Identify the processes that lead to the formation of sedimentary rocks.

Hint: Consider how sediments are formed and compact.

- Cooling and Solidification
- Compaction and Cementation
- Melting
- Weather and Erosion

Explain how igneous rocks can transform into sedimentary rocks.

Hint: Think about the processes that involve weather and erosion.

If a rock is exposed to high heat and pressure but does not melt, what type of rock is it likely to become?

Hint: Consider the effects of heat and pressure on rocks.

- Igneous
- Sedimentary
- Metamorphic
- magma

Which of the following scenarios can lead to the formation of igneous rocks?

Hint: Think about volcanic activity and magma.

- A volcanic eruption
- Sediments accumulating in a riverbed
- magma cooling beneath the Earth's surface
- Rocks being buried and exposed to pressure

Compare and contrast the processes of compaction and cementation in the formation of sedimentary rocks.

Hint: Think about how sediments are transformed into solid rock.

Part 3: Evaluation and Creation

Which rock type would you expect to find at the site of an ancient volcanic eruption?

Hint: Consider the types of rocks formed from volcanic activity.

- Sedimentary
- Metamorphic
- Igneous

None of the above

Evaluate the following statements and select those that accurately describe the rock cycle.

Hint: Consider the nature of the rock cycle and its processes.

- It is a linear process.
- Rocks can transform from one type to another in multiple ways.
- It involves only igneous and sedimentary rocks.
- It is a continuous and dynamic process.

Propose a creative way to demonstrate the rock cycle in a classroom setting, using everyday materials.

Hint: Think about hands-on activities that illustrate rock formation processes.