

## **Rock Cycle Worksheet**

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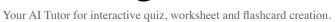
Part 1: Building a Foundation
What type of rock is formed from the solidification of molten magma?
Hint: Think about the different types of rocks and their formation processes.
<ul><li>○ Sedimentary</li><li>○ Metamorphic</li></ul>
○ Igneous
Sediment
Which of the following are examples of sedimentary 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.



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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
<ul><li>Weather and Erosion</li><li>Compaction</li></ul>
○ Uplift
Part 2: Application and Analysis
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
<ul><li>☐ Melting</li><li>☐ Weather and Erosion</li></ul>
Explain how igneous rocks can transform into sedimentary rocks.
Hint: Think about the processes that involve weather and erosion.





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

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



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○ 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.
materials.