

Rock Cycle Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

Define the rock cycle in your own words.

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



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The rock cycle describes the continuous process of rock formation, breakdown, and transformation.
List two processes involved in the formation of metamorphic rocks.
Hint: Consider the conditions that lead to metamorphism.
1. Process 1
Heat
2. Process 2
Pressure
Processes include heat and pressure.
Which process involves the breekdown of rocks into smaller partiales by natural forces?
Which process involves the breakdown of rocks into smaller particles by natural forces?
Hint: Think about the forces of nature that affect rocks.
MeltingWeather and Erosion ✓
○ Compaction
○ Uplift
Weather and erosion are processes that break down rocks.

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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
Compaction and cementation are key processes in forming sedimentary rocks.
Explain how igneous rocks can transform into sedimentary rocks.
Hint: Think about the processes that involve weather and erosion.
Igneous rocks can break down into sediments through weather and erosion, which can then form sedimentary rocks.
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
It is likely to become a metamorphic rock.

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



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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
Volcanic eruptions and magma cooling can lead to the formation of igneous rocks.
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.
Compaction involves the squeezing of sediments, while cementation involves the binding of sediments together. Part 3: Evaluation and Creation
- Lvaluation 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.
SedimentaryMetamorphic
○ Igneous ✓
○ None of the above
You would expect to find igneous rocks at the site of an ancient volcanic eruption.
Evaluate the following statements and select those that accurately describe the rock cycle.

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	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. ✓
	The rock cycle is a continuous and dynamic process where rocks can transform in multiple ways.
	opose a creative way to demonstrate the rock cycle in a classroom setting, using everyday aterials.
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