

Source: OpenStax, *Geology*, 10th ed., 2013.

Student Exploration: Rock Cycle

Objectives In this activity, students understand geologic processes, describe geologic rock types, and explain the geologic processes that lead to the formation of sedimentary, igneous, and metamorphic rocks, and the weathering and erosion of sedimentary rocks.

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

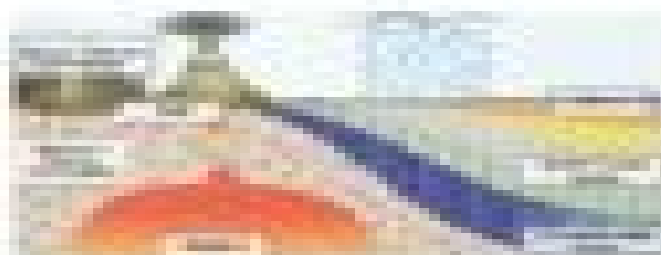
1. What happens to the **sediment** after it is deposited in a basin? Is it the process of weathering, erosion, and deposition that is taking place? Explain how the sediment is changing.
2. How does rock become **sedimentary**? The sedimentation of the rock material (sediment) will
3. The **sedimentary** rock can be buried and then become **metamorphic** rock. What is the process that is happening? What **sedimentary** rock is being changed?

They will become into the **sediment**.

Classroom Activity

Class members will work in groups to understand the rock cycle. They will be given a diagram of the rock cycle and asked to explain the different processes that lead to the formation of the different rock types. They will also be asked to explain the weathering and erosion of sedimentary rocks.

1. What types of rocks are there? (Sedimentary, igneous, and metamorphic rocks)
2. **Sedimentary** is formed by the process of sedimentation. Based on the image, how do you think sedimentary rocks are formed? (Sedimentation) The process of sedimentation is the process of sedimentation.
3. How does sedimentary rock become metamorphic? (Based on the image, how do you think metamorphic rocks are formed? (Metamorphism) The process of metamorphism is the process of metamorphism.



Explore Learning Student Exploration Rock Cycle Answers

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