

Name: _____

Date: _____

Student Exploration: Rock Cycle

Vocabulary: deposition, erosion, extrusive igneous rock, intrusive igneous rock, lava, lithification, magma, metamorphic rock, rock cycle, sediment, sedimentary rock, soil, weathering

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

1. What happens to hot **lava** after it erupts from a volcano? It cools and hardens into rock
2. How does rock turn into **soil**? It is weathered by mechanical or chemical means
3. The Mississippi River carries tons of tiny rock fragments called **sediments** into the Gulf of Mexico. What do you think will happen to these sediments after a few million years?
Turns into Sedimentary rock

Gizmo Warm-up

Over millions of years, rocks are broken down and transformed into other rocks. The *Rock Cycle* Gizmo™ illustrates the different transformations that make up the **rock cycle**. Before exploring the Gizmo, take a look at the image.



1. What types of rocks are shown? Intrusive and Extrusive igneous, Metamorphic and Sedimentary rock
2. **Magma** is molten (liquid) rock under Earth's surface. Based on the image, how do you think magma turns into **extrusive igneous rock**? Magma cools and hardens on the surface
3. Click **Extrusive igneous rock** button to the right of the image. Were you correct? Yes

Rock Cycle Gizmo Answers

Anthony S. Fauci

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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