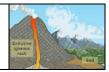


Name:		Date:	
Period:		Page:	
	Student Explorati	ion: Rock Cycle	
	cabulary: deposition, erosion, extrusive igneoulification, magma, metamorphic rock, rock cycle		ering
Pri	ior Knowledge Questions (Do these BEFORE	using the Gizmo.)	
1.	What happens to hot lava after it erupts from a	a volcano?	_
2.	How does rock turn into soil?		
3.	The Mississippi River carries tons of tiny rock f Mexico. What do you think will happen to these		· of
Ov and Giz tha the	zmo Warm-up ver millions of years, rocks are broken down d transformed into other rocks. The Rock Cycle zmo™ illustrates the different transformations at make up the rock cycle. Before exploring e Gizmo, take a look at the image. What types of rocks are shown?	Extrusive Igneous rock Soil Sedimentary rock Magma Metamorphic rock	nts
2.	Magma is molten (liquid) rock under Earth's sumagma turns into extrusive igneous rock?	urface. Based on the image, how do you	think
3.		ght of the image. Were you correct?	

Get the Gizmo ready:

The rock cycle

• Click Start again.



Question: What is the rock cycle?

1.	Obser	ve: A cycle is a path with the same start and end. Create a rock cycle with the Gizmo.
	A.	Click Magma . How hot is magma?
	В.	Click Crystallization (below ground). What kind of rock is formed when magma
		cools below the surface?
	C.	Click Exposure and weathering . What forms when rocks break down?
	D.	Click Erosion and deposition . In what ways are sediments transported?
	E.	Click Lithification and compaction . (Lithification is hardening into rock.) What
		kind of rock is formed from sediments?
	F.	Click Increase temp. and pressure. What kind of rock is formed?
	G.	Click Melt . What is formed when rocks melt deep underground?
2.	<u>Descri</u>	be: Select the PATH tab. What are the steps in this rock cycle?
		ur own: On the SIMULATION tab, click Start again . In the spaces below, list three ycles. You can start anywhere, but each cycle must begin and end at the same point.
	•	
	Cycle	2:
	,	
	Cycle	3:
	•	

(Activity continued on next page)



Activity (continued from previous page)

4. <u>Diagram</u>: The image below summarizes the different stations in the rock cycle. Draw an arrow to represent each possible transition from one rock type to another. Then label each arrow with the process that occurs, such as "weathering" or "erosion and deposition."

Intrusive Igneous Rock	Metamorph Rock
Extrusive Igneous	Sedimentar Rock
Rock	Rock

5. <u>Practice</u>: List the steps that would cause each transformation below.

A.	Intrusive igneous rock → sedimentary rock:
В.	Metamorphic rock → sediment:
C.	Sediment → sedimentary rock:
D.	Sedimentary rock → sediment: