

Nan	ne:		Date:			
		Student Exploration: F	Rock (	<u>Cycle</u>		
		: Follow the instructions to go through the simulative orange boxes.	ulation.	Respond to the q	uestions	s and
		y: deposition, erosion, extrusive igneous rock, intru nic rock, rock cycle, sediment, sedimentary rock, so	•		ification	, magma,
Prior	r Knov	wledge Questions (Do these BEFORE using the G	Sizmo.)			
1.	What	happens to hot lava after it erupts from a volcano?				
2.	How	does rock turn into <b>soil</b> ?				
3. The Mississippi River carries tons of tiny rock fragments called <b>sediments</b> into the What do you think will happen to these sediments after a few million years?					Gulf of N	Mexico.
				- 3		
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.						Sediments
1.	Wha	t types of rocks are shown?	Magm	Intrusive igneous rock	Metamorphic rock	imentary rock
2.		ma is molten (liquid) rock under Earth's surface. Ba into extrusive igneous rock?	sed on t	he image, how do	you thinl	k magma
3.	Click	Extrusive igneous rock button to the right of the i	mage. V	Vere you correct?		

		vity: rock cycle	Get the Gizmo ready:  ■ Click Start again.		Extrusive (gneous rock Soil	
Question: What is the rock cycle?  1. Observe: A cycle is a path with the same start and end. Create a rock cycle with the Gizmo.						
<u>v</u>		- ,		orogio a rook cyolo wilir and		
	<ul> <li>A. Click Magma. How hot is magma?</li> <li>B. Click Crystallization (below ground). What kind of rock is formed when magma cools below the surface?</li> </ul>					

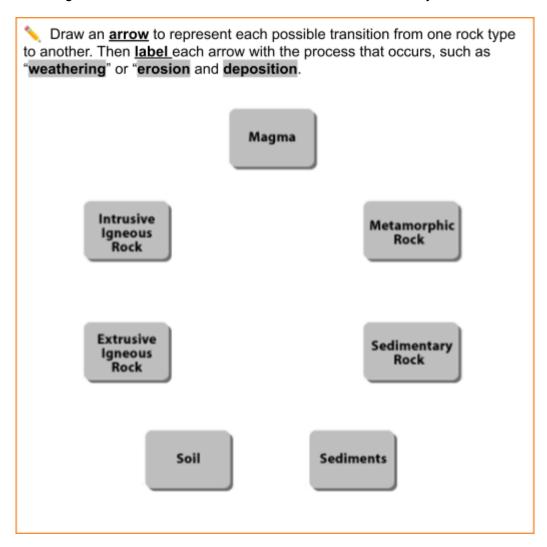
C. Click **Exposure and weathering**. What forms

D. Click **Erosion and deposition**. In what ways

when rocks break down?

2.	Describe: Select the PATH tab. What are the steps in this rock cycle?					
3.	. On your own: On the SIMULATION tab, click <b>Start again</b> . In the spaces below, list three rock cycles. You can start anywhere, but each cycle must begin and end at the same point.					
	Cycle 1:					
	Cycle 2:					
	Cycle 3:					

4. <u>Diagram</u>: The image below summarizes the different stations in the rock cycle.



- 5. Practice: List the steps that would cause each transformation below.
  - A. Intrusive igneous rock | sedimentary rock:

    B. Metamorphic rock | sediment:

    C. Sediment | sedimentary rock:

    D. Sedimentary rock | sediment: