Rock Cycle Interactive Guided Worksheet

Name:						
Date:						
Website used: www.learner.org/interactives/rockcycle						
Essential Question: How Do Rocks and Minerals Cycle Through our Environment?						
<u>Enduring Understandings</u> : Earth's Materials (rocks and minerals) are formed and may undergo change by certain conditions, such as erosion or metamorphism and can occur over various amounts of time.						
Assessing Prior Knowledge: Fill out this KWL sheet together with the class. At the end of our activity we will fill out the L portion of the chart.						
What we Know	What we Want to Know	What we've Learned				

Using the website and these note pages you will journey through the rock cycle, learning about how rocks are formed, what types of rocks there are, build your own rock collection and be assessed on your knowledge. Follow the directions throughout the worksheet to guide you through the website. You will be stopping at various points along the way to discuss what you are learning with your partner. When you see the **STOP!** sign stop what you are doing, turn to your partner and complete the interview questions.

Introduction	
Rocks come in cool,,,,,,	and
Look at the rock next to you. Pick it up and feel it. Describ size below.	pe it's color, shape, texture and
Prediction: Do you think this rock was formed inside or ouearth? Why?	utside (on the surface) of the
Look at the rock cycle diagram on the webpage. Where din the cycle?	lo you think your rock belongs

STOP! Turn to your partner and tell them about your rock.

Look at the box below the student. What will you be doing during this activity?		
Creating a		
learning about the	main types of rocks, finding out how to	
	and seeing how rocks change	
Before you go to the ne	ext webpage, fill out this rock cycle diagram:	
Click on "begin with typ	pes of rocks"	
Types of Rocks		
How many mair	n types of rocks are there? (circle the correct answer)	
1 2	2 3 4 5	

STOP! Turn to your partner, ask each other the following question - how many different kinds of

rocks do you think exist? Not types but varieties of those types. Write your number down.

Sedimentary Rocks

Sedimentary rocks are formed from particles of			
The sedimentary particles accumulate (build up) in harde			
Real life tip ** Always use caution when rock climbing on very easily!!	sedimentary rocks - they break apart		
Bonus questions \rightarrow What environment would you be in it (circle your answer)	f you were seeing sedimentary rocks?		
A beach or shoreline Mou	ntains		
Example of a sedimentary rock			
STOP! Can fossils be found in sedimentary rocks? Discu	uss with your partner.		
Metamorphic Rocks			
Metamorphic rocks are formed metamorphosis (change) that occurs due to rocks resulting from these processes often have that are formed by time.	and The layers, shiny		
An example of a metamorphic rock is			
Bonus question \rightarrow how might a rock come into contact w			
** Remember** Metamorphic = Heat + Pressure			
STOP! Tell your partner one thing you now know about r	metamorphic rocks.		
Igneous Rocks			
Igneous Rocks are formed when formed inside and on the earth's surface. Sometimes magma ar from a volcano.			

When magma erupts onto the surface of the earth it is then called				
When lava cools quickly do	crystals form? (circle your a	nswer) Yes or No		
Based on your answer above, does lave need to cool quickly or slowly for crystals to form?				
The rock looks	and	There can be		
		t cools leaving and		
correct texture with it's defin 1. Glassy Surface _				
_	A.			
2. Sand or Pebbles _				

3. Fossils

4. Ribbon Like layers	D.
5. Crystals	E.
6. Gas Bubbles	F.

Before we move on to creating our own rock collection, let's review! Go back to the front page of this packet and complete the "What We've Learned" portion of the KWL chart.

Final thoughts - go back to your rock sample. After what you've learned today, what more can you say about your rock? Have your predictions changed? Identify the textures above that are present in your rock, if any.

How do rocks and minerals cycle through the environment?

Building Your Rock Collection

Fill out this diagram with the names of each rock you collect and one fact about them.