Rock Cycle Webquest!

Name: _____

Date: _____ Period: ___

Part 1

1. Go to the following website: http://www.learner.org/interactives/rockcycle/index.html

2. Click on "Begin with Types of Rocks". Read over the description of Igneous, Metamorphic and Sedimentary rocks. Then scroll to the bottom and examine the "What to look for" chart!

3. Write down the six clues below:

a) _____ b) _____ c) _____ d) _____ e) _____ f) _____

4. Then click "Next: Start your collection". Click Begin. Click on each of the six rocks to identify them and read a brief description.

Name of Rock	**Share <u>two</u> facts about this rock!**	**Igneous, Metamorphic or Sedimentary?** (Do your best to use your knowledge to classify each rock!)
1._____		
2._____		
3._____		
4._____		
5._____		
6._____		

5. Now click “Next: Identify Rock Types” and read the directions for how to play.

Characteristic	Type of Rock (circle one)		
	Igneous	Metamorphic	Sedimentary
	Igneous	Metamorphic	Sedimentary
	Igneous	Metamorphic	Sedimentary
	Igneous	Metamorphic	Sedimentary
	Igneous	Metamorphic	Sedimentary

6. Now click on the next chapter, titled “How Rocks Change”. Read the section on how heat and pressure changes rocks and watch the animation by clicking Start.

    a) Heat and pressure causes _____ rock to turn into _____ rock.

7. Click “Next”. Read the section on Heating and Cooling. Click on the animation for Melting.

    a) Melting causes _____ rock to turn into _____.

8. Click on the animation for Cooling. You may need to replay the animation more than once to answer the following questions.

    a) How does extrusive igneous rock form?

    _____.

    b) How does intrusive igneous rock form?

    _____.

    c) Which cools faster? _____

    d) Which has crystals? _____

9. Click “Next”. Read the section on Weathering and Erosion and Compacting and Cementing. Watch both animations.

10. Click on “Transform the Rock”. Read the directions for how to play and press “Begin”. **IMPORTANT**: Fill out the table below before submitting each answer! The words disappear very quickly!

	+		=	
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11. Go onto the Next Chapter. Explore the rock cycle diagram. When ready, click the Next to “Complete the Cycle!” Read the directions to learn how to play! You do not have to write your answers down, the computer will score you!

12. After completing the diagram you are ready to test your skills! Click Begin! Final score ____ / 15.

Part 2

13. Go to the following website: http://www.oum.ox.ac.uk/thezone/rocks/games/level1.htm

    a) Drag the images on the left to their correct positions in the Rock Cycle! Best time: _____

    b) Move on to the next level! Best time: _____

Part 3: BrainPop- Erosion Video

14. Go to the following website: http://www.brainpop.com/science/earthsystem/rockcycle/
(Login: Vesbrainpop PW: bluebird)

Take the "Graded Quiz" once the video is over. Write the <u>correct</u> answers to each question below:

1) What are the three types of rocks that are part of the rock cycle? _____
2) What do you need in order for an igneous rock to form? _____
3) What do granite and basalt have in common? _____
4) What's the difference between magma and lava? _____
5) Which of the these is sedimentary rock? _____
6) What can you infer about metamorphic rocks from their name?_____
7) Where might you find mountains of metamorphic rock? _____
8) What has to happen to sediment in order for it to form sedimentary rock? _____
9) Sedimentary rock is most like which of the following? _____
10) When does a sedimentary rock become a metamorphic rock? _____

***Click View your results. How did you score?* _____**