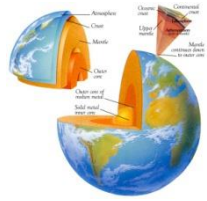


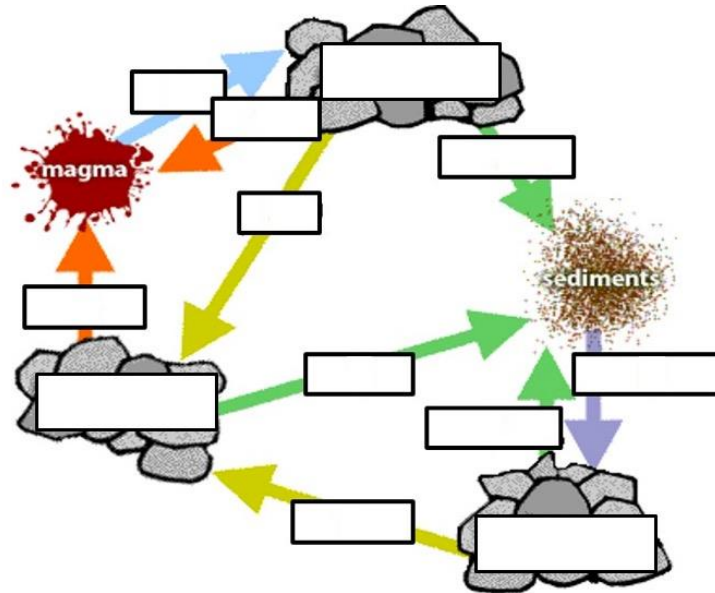
Name: _____

Rocks and Minerals Webquest



Directions: Answer the following questions by *clicking on the hotlink titles* then use the information to answer questions in schoology. **Open the page on my web page.**

Rock Cycle – Click on the link and fill in the blanks below.



View this Rock Cycle animation – **You must click on the flashing graphics to see the video inserts.**

- Click on the flashing lava flow out of volcano.
 - Quick cooling forms many small _____. Gases _____ out of lava form holes in the rock.
- Click on the flashing cloud and then click on the **Desert Monuments** dot.
 - When you look at the desert monuments, what eroded away? _____
- Click on the flashing river.
 - What do you notice about the rocks in the flowing stream image?? _____
- Click on the flashing deposition of sediment.
 - Why do the larger rocks settle out while the smaller ones float downstream? _____
- Click on the flashing compaction and cementation.
 - What's responsible for cementing sand grains of sedimentary rock? _____
- Click on the flashing metamorphic rock.
 - What two things are needed to turn igneous rock into metamorphic rock? _____
- Click on the flashing melting metamorphic rock.
 - As metamorphic rock is dragged deeper, what happens to it?? _____

Rocks – **Information is listed at the bottom of the 2nd page.**

- Identify two characteristics used to identify each rock type.
 - Igneous -
 - Metamorphic -
 - Sedimentary

Rock Identification Key - Note that some of the answers lie on the charts to the left.

9. For igneous rock, when magma cools slowly the crystals...
10. For igneous rock, when magma cools quickly, the crystals...
11. Of the types of igneous rock formed underground (Diorite, Diabase, Gabbro, and Granite), which one is most familiar to you?
12. When looking at sedimentary particle size, which material type (shale, sandstone, conglomerate, breccia) has the largest particles and which has the smallest particles?
13. Which metamorphic rock forms under the highest temperature and highest pressure? (circle)
(Slate, Marble, Schist, Serpentine, Quartzite, Gneiss)

Sedimentary Rocks

14. How much of earth's surface is made of sedimentary rock?
15. Give 4 examples of sediment that might eventually become sedimentary rock.
 - a. _____
 - b. _____
 - c. _____
 - d. _____
16. What caused the appearance in the sedimentary rock in picture B?

Mohs Scale

17. What is Mohs Scale used for?
18. What mineral is a 10 on Mohs Scale?
19. Give an example of a mineral with a hardness of 7 (according to Mohs Scale).
20. If a mineral can scratch a penny, what number is it on Mohs Scale?
21. What is the softest material on the Moh's hardness scale?

Streak

22. What is a streak test?
23. Sometimes the color and the streak of a mineral are very different. Which of the examples shows a difference between color and streak?

Density

24. Show your work for calculating the density of block 1 and 2. Note that question 2 might give you an incorrect answer even though you know your answer is correct.