

Name: \_\_\_\_\_

# WEBQUEST: ROCKS AND MINERALS

**Directions:** Answer the following questions using the websites provided for each question. Go to [dixiemiddlescience.weebly.com](http://dixiemiddlescience.weebly.com), 8<sup>th</sup> grade science, 2<sup>nd</sup> quarter Earth to find the links for this worksheet.

**Task 1- Rock Cycle** <http://www.cotf.edu/ete/modules/msese/earthsysflr/rock.html>

1. What are the three main types of rocks?
2. How does a sedimentary rock turn into a metamorphic rock?
3. How does an igneous rock turn into a metamorphic rock?
4. How do metamorphic rocks change into sedimentary rocks?
5. How do igneous rocks change into sedimentary rocks?
6. What is the beginning of the rock cycle? The end?

**Task 2- Rock Cycle Animation** [http://www.classzone.com/books/earth\\_science/terc/content/investigations/es0602/es0602page01.cfm](http://www.classzone.com/books/earth_science/terc/content/investigations/es0602/es0602page01.cfm)

7. Quick cooling forms many small what?
8. When you look at the desert monuments, what eroded away?
9. The microscopic view of sand contains what two components?
10. What two things are needed to turn igneous rock into metamorphic rock?

**Task 3- Rocks** <http://www.learner.org/interactives/rockcycle/>

11. List and define the 6 key characteristics that can help you identify rocks within the three main classes.
  - a.
  - b.
  - c.
  - d.
  - e.
  - f.

**Task 4- Rock Identification Key** [http://www.minsocam.org/msa/collectors\\_corner/id/rock\\_key.htm#TOC](http://www.minsocam.org/msa/collectors_corner/id/rock_key.htm#TOC)

- 12. For igneous rock, when magma cools slowly, the crystals.....
- 13. For igneous rock, when magma cools quickly, the crystals.....
- 14. Of the types of igneous rock formed underground, which one is most familiar?
- 15. When looking at sedimentary particle size, which material type has the largest particles and which has the smallest particles?  
Largest \_\_\_\_\_ Smallest \_\_\_\_\_
- 16. Which metamorphic rock forms under the highest temperature and highest pressure?

**Task 5- Mystery Rocks** [http://www.windows2universe.org/earth/geology/sed\\_intro.html](http://www.windows2universe.org/earth/geology/sed_intro.html)

- 17. How much of Earth's surface is made of sedimentary rock?
- 18. Give 4 examples of sediment that might eventually become sedimentary rock.
- 19. What caused the appearance in the sedimentary rock in picture B?

**Task 6- Moh's Scale** [http://www.minsocam.org/msa/collectors\\_corner/article/mohs.htm](http://www.minsocam.org/msa/collectors_corner/article/mohs.htm)

- 20. What is Moh's scale used for?
- 21. What mineral is a 10 on Moh's scale?
- 22. Give an example of a mineral with a hardness of 7 (according to Moh's scale). Tell me about that mineral.

**Task 7- Streak** <http://academic.brooklyn.cuny.edu/geology/grocha/mineral/streak.html>

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

Name of Mineral	Color	Streak