Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Rock Cycle Comprehension

*Briefly outline the steps of one rock turning into another. Use your rocks booklet to assist you.*

1. How can a metamorphic rock turn into an intrusive igneous rock?

2. How can a metamorphic rock turn into an extrusive igneous rock?

3. How can a metamorphic rock turn into a sedimentary rock?

4. How can a sedimentary rock turn into an intrusive igneous rock?

5. How can a sedimentary rock turn into an extrusive igneous rock?

6. How can a sedimentary rock turn into a metamorphic rock?

7. How can an igneous rock turn into a sedimentary rock?

8. How can an igneous rock turn into a metamorphic rock?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Unit 3: Review Questions

*Answer the following questions using any of the following resources textbook, rocks booklet, guided notes, wiki, internet.* **Complete sentences are not required, but answering all parts of the question is mandatory.**

9. Can a sedimentary rock become an igneous rock without changing first to a metamorphic rock? Explain your answer using one example.

10. Explain how chemical and physical weathering accomplish the same thing (break down of rocks into sediments) but have completely different methods. Use two examples to explain your thinking.

11. How does the rate of cooling of magma or lava affect the texture of igneous rocks?

12. This sample of “Andesite” displays igneous rock with a porphyeitic texture (mix of small grains & large grains). Hypothesize how this rock formed. (Hint: use EES textbook for reference)

13. Which types of sediments will undergo more compaction- grains of sand or grains of clay? Explain your answer drawing a picture. (Hint: clay particles are smaller than sand particles)

14. Do all metamorphic rocks have foliation? Explain your answer by drawing a diagram.

15. How can the water cycle influence the rock cycle? Name one example.