Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: 1 2 3 4 5 6

**Earth Science - Unit 3 Study Guide**

1) Draw/diagram a replica of the “Rock Cycle” identical from your 3.1 Guided Reading note packet. Include types of rocks and how they each form into those types of rocks.

2) How are metamorphic rocks created? (Name the two main reasons)

3) Define “rock” -

4) How are the three types of rocks classified?

5) What types of rocks are formed by the processes powered by the sun? Give an example of “how”.

6) What is the difference between Intrusive igneous rocks and extrusive igneous rocks?

7) What is the difference between “magma” and “lava” and how do they become igneous rocks?

8) When large masses of magma cools deep inside of the Earth, what type of igneous rock texture do they form?

9) Igneous rock with two distinct crystal sizes forms what type of “texture” ?

10) How do “glassy texture” igneous rocks form?

11) Igneous rocks that crystalize from magma and are composed almost entirely of quartz and feldspars have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ composition?

12) What type of rock is a “conglomerate” and how does it form?

13) There are 5 processes in the forming of sedimentary rocks. What are the 5 components and their order?

14) What is the difference between clastic and chemical sedimentary rocks?

15) What are the uses in finding fossils in sedimentary rocks? (what do they determine?)

16) What type of rocks are fossils found in?

17) Where do metamorphic processes take place?

18) What is the primary agent of contact metamorphism?

19) What are the 3 primary agents of metamorphism?

20) What changes take place during metamorphism? (be specific)

21) What is the difference between foliated and non-foliated metamorphic rocks?

22) How are metamorphic rocks classified?

23) What are the 3 types of rocks?

24) What factor most influences the size of mineral crystals in igneous rocks?

25) What are fossils and why are they useful?

26) What are the 3 agents of metamorphism?