**Earth Science Unit Test—Study Guide**

Define the following terms.

1. Igneous rock
2. Metamorphic rock
3. Sedimentary rock
4. Rock
5. Mineral

Answer the following questions.

12. Draw and label a simple diagram of the rock cycle.

13. How are extrusive igneous rocks different from intrusive igneous rocks?

14. List and describe the properties of minerals.

15. How do sedimentary rocks form?

16. How do igneous rocks form?

17. How do metamorphic rocks form?

18. Explain the difference between hardness and streak.

***Metamorphic Rock***

1. Where does the word metamorphism come from? \_\_\_\_\_\_\_\_\_\_\_\_ Metamorphic rocks are rocks in which the \_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the rock has changed. All three types of rock can be changed by\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, or a combination of both.

2. At what temperature does most metamorphism in rock occur?

3. At what depth does most metamorphic changes in rocks take place?

4. The effect of heat on rock \_\_\_\_\_\_\_\_\_\_\_ decreases as the rock’s distance from the \_\_\_\_\_\_\_ increases and as \_\_\_\_\_\_\_\_\_\_\_ decreases. \_\_\_\_\_\_\_\_\_\_\_\_ Metamorphism occurs near \_\_\_\_\_\_\_\_\_ intrusions.

5. Explain how and where regional metamorphism takes place.

6. Metamorphism occurs when……

7. Define foliated-

8. Define nonfoliated and give two examples-

***Igneous Rock***

1. What is the Latin meaning of Igneous?

2. The type of \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ that forms depends on the composition of the magma and the amount of \_\_\_\_\_\_ it takes the magma to cool.

3. What does igneous rock begin as?

4. What is the main differences between the way water freezes and the way magma Freezes?

5. Because some minerals have different melting points, some \_\_\_\_\_\_\_\_\_\_\_ in the magma will \_\_\_\_\_\_\_\_\_ or become \_\_\_\_\_\_\_\_ before other \_\_\_\_\_\_\_\_ do.

List three ways magma is formed?

6. Why are the composition and texture different in igneous rocks?

7. The longer it takes for \_\_\_\_\_\_\_\_ or lava to cool, the more time \_\_\_\_\_\_\_\_ crystals have to \_\_\_\_\_.

8. Explain the difference between felsic rock and mafic rock?

9. Define Intrusive Igneous Rock-

10. Define Extrusive Igneous Rock-

***Sedimentary Rock***

1. Over time, sand grains may be \_\_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_\_\_ , and then cemented together to form a rock called\_\_\_\_\_\_\_\_\_\_\_\_.

2. Define Erosion-

3. Through the process of erosion, these rocks and mineral fragments, called \_\_\_\_\_\_\_\_\_\_ , are moved from one place to \_\_\_\_\_\_\_\_\_\_\_.

4. What mineral dissolve to help cement sediment together?

5. Where do sedimentary rocks form?

6. Define Strata-

7. Where is the best place to observe strata in rock formations?

8. \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ rock forms when rocks or mineral fragments, called \_\_\_\_\_\_\_, are cemented \_\_\_\_\_\_\_\_\_. Chemical\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_ forms when minerals crystallized out of a\_\_\_\_\_\_\_\_\_\_ , such as sea water, to become\_\_\_\_\_\_\_. \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ rock forms from the remains of once living \_\_\_\_\_\_\_\_ and animals.

9. Give a two examples of a clastic sedimentary rock?

10. How does a chemical sedimentary rock such as halite form?

11. Most limestone forms the remains, or \_\_\_\_\_\_\_\_, of animals that once lived in the \_\_\_\_\_\_.

12. How do coral reefs contribute to the organic sedimentary rock process?

13. Define Stratification: