***Review Guide: Intro to Geology***

1. Why is the Earth considered a complex and dynamic planet? How old is the Earth? What causes all the changes to occur?
2. What is a system? How does the Earth fit this description?
3. List all the Earth’s principle subsystems and describe what each consists of. What is exchanged/recycles through the interactions between the subsystems?
4. How do humans and our activities impact the subsystems? Give examples
5. What is Geology? What are the 2 types? Define Each one
6. List the economic and environmental relevance of Geology.
7. Explain how Geology relates to the Human Experience. Explain the relevance of natural resources and human activity.
8. How does Geology impact everyday life? Give specific examples
9. What is our biggest environmental problem? Define/explain it. How is the a geologic problem?
10. Explain the relationship between current human population and the earth’s carrying capacity. What problem is developing?
11. What environmental issues exist due to human activities? Explain them
12. How did the universe begin? How old is it? Explain the Big Bang Theory. How do we know that Big Bang happened?
13. What is the Solar Nebular Theory? Explain it. What objects are foun din our solar system? How old is our Solar System?
14. What’s the difference between the Terrestrial and Jovian planets? (Know which ones are which….list each type)
15. Describe the early earth. How and why did it change over time?
16. What is the most significant event in earth’s history? What did it lead to?
17. What are the 3 physical layers of the earth? Thoroughly describe each one.
18. What causes the differences between each layer?
19. Describe each zone of the mantle
20. What is the unifying theory of Geology? Explain it. What does this theory account for? What is Plate Tectonics the framework for?
21. What is a rock? What’s a mineral? What’s the difference between them? How many minerals make up the bulk of the earth’s crust?
22. What are the 3 types of rocks? How are they differentiated
23. What is the rock cycle? How are Plate Tectonics and the rock cycle related?
24. Define Uniformitarianism. Why is this principle so powerful in Geology?