**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_**

**Geology Basic Principles, Scientific Method, Lab Safety Review**

**Part I: Scientific Method**

1. **Explain how the scientific method is NOT a set of specified steps that have to be followed in a certain order.**
2. **What are steps that ARE needed to perform an experiement?**
3. **Explain the difference between a independent and dependent variable.**
4. **What is a control?**
5. **What is the difference between a scientific law and scientific theory?**

**Part II: Lab Safety**

1. **What should you do before performing a lab?**
2. **What should you where during experiments with chemicals or flames?**
3. **What are safety equipment is in the classroom?**
4. **What should you do if there is an accident or injury in lab?**
5. **What should you do with broken glassware?**
6. **What should you do if you are unsure of what to do?**
7. **What should you do before you leave the lab?**

**Part III: Geologic Principles**

1. **What is geology?**
2. **How old is the earth? The universe?**
3. **What does the principle of Uniformitarianism state?**
4. **What is a nebula and what is it mostly made of?**
5. **What are the inner planets also known as and which planets are inner planets?**
6. **What are the outer planets also known as and which planets are outer planets?**
7. **Which planets are rocky?**
8. **Which planets are giant gas planets?**
9. **Is Pluto a planet?**
10. **Which planets are the densest?**
11. **What are the two sources of Earth’s internal heat?**
12. **Why did layers on earth form?**
13. **Describe the hydrosphere.**
14. **Describe the atmosphere.**
15. **Describe the biosphere.**
16. **Describe the geosphere.**
17. **What is the difference between an open and closed system. Which one describes earth?**
18. **What are Earth’s two sources of energy and what processes do they drive?**