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

**Geology Spring Final Review #3**

**Mountain Building, Earth’s History, Geologic Time Scale (20 Questions on Final)**

**Chapter 11 Key Questions:**

1. **What process produces mountains?**
2. **What is the difference between stress and strain?**
3. **What is the difference between compressional and tensional stress?**
4. **What is the difference between a joint and a fault?**
5. **What is the difference between a normal, reverse, thrust, and strike slip fault?**
6. **What is the difference between anticlines, synclines, and monoclines?**
7. **Most mountains are formed by what kind of plate boundary?**
8. **What types of mountains are formed at divergent boundaries?**
9. **What things can form mountains not formed at plate boundaries?**

**Chapter 12 Key Questions:**

1. **What does the principle of Uniformitarianism state?**
2. **What are index fossils?**
3. **What type of rock is the most helpful in learning about the history of the earth?**
4. **What is the difference between relative and absolute dating?**
5. **What does the law of superposition say?**
6. **Nuclei decay in what process?**
7. **How old is the earth?**
8. **What is the difference between an eon, era, period, epoch? Rank them from smallest to largest time frames.**
9. **How much time does Precambrian time represent of earth’s geologic history?**
10. **What is a fossil?**
11. **What two things determine the type of fossil formed?**

**Chapter 13 Key Questions:**

1. **What is the geologic time scale?**
2. **Which era spans the least amount of time on the geologic time scale?**
3. **Which era is known as the age of the reptiles?**
4. **During which period and era did humans first appear?**
5. **What was the first large organism on earth?**
6. **Early Paleozoic life was restricted to the:**
7. **Why did amphibians take over as the dominant species?**
8. **Why did reptiles take over amphibians as the dominant species?**
9. **In which era were the western US coal and other natural resource deposits formed?**
10. **What two land masses formed Pangaea, and in what era did it start to break up?**