**Preston High School Geography Dept.**

**CGF 3M**

**Test #1**

**Format**

Multiple Choice 10 marks

Diagrams 20 marks

True /False 10 marks

Short Answer 10 marks

**Total: 50 marks**

**WHAT TO STUDY?**

Empirical / Anecdotal Evidence

Introductory PowerPoint

**The Story of the Earth – no dates..**

* Stromatolites - effect
* Age of Earth
* Cambrian Explosion
* Permian Extinction
* Formation of Coal and Oil
* Radiation and formation of ozone layer
* Anthropocene
* Explain the rise of Primates from central Africa.. (Australopithecus walking upright)

**Explain why the Geologic Time frame is different that the human time frame**

**Be able to comment on the reasons for the different ideas on the age of the earth**

**How long does it take – general understanding**

**Earth Calendar –** general comments on when life is ie) December

**Absolute vs Relative Time**

1. **Time Chart – highlights only**
2. **Two methods of Relative Dating – how they work to identify times and types of rock**
   1. **Laws and Principles of Geologic History**
      1. Law of Uniformitarianism
      2. Law of Super Position
      3. Law of Cross – Cutting
      4. Law of Inclusions
      5. Law of Unconformities
   2. **Index Fossils**
      1. Principle of Biotic Succession
      2. Bracketing the fossils
3. **Absolute Time**
   1. **Carbon 14 dating**
   2. **Radiometric Dating**
      1. **Half life**
      2. **How it works – generally**

**The Earth’s Spheres**

Hydrosphere, Lithosphere, Atmosphere, Biosphere, Ecosphere

Open System, Closed System, Albedo

Note!! You will diagrams that look like those in the lab on Laws and Principles of Geology

You will have a diagram on Interaction of spheres.