Semester 1 Test Review- Earth and Space Science - Mrs. Thomas

Be able to describe, define and apply the following terms and concepts. Use the word walls for specific vocabulary!

1. Scientific Practices

- ❏ How to use a graduated cylinder and what it is used to measure
- ❏ Scientific theory
- ❏ Hypothesis
- ❏ Benefits of using the International System of Measurement
- ❏ Metric units (grams, meters, liters etc…)
- ❏ Volume both solid and liquid
- ❏ Density - how to calculate (I♡Density)
- ❏ Convection
- ❏ Different spheres and examples of how they interact (hydrosphere, atmosphere, hydrosphere and biosphere) and are interdependent and affect one another.

2. Maps

- ❏ Time zones and how when you travel (east of west) you experience time changes
- ❏ Longitude and latitude and how to use coordinates on a map to find a location
- ❏ Different types of maps (political, road, physical, topographic etc…) and uses
- ❏ Features of maps
- ❏ Cardinal directions
- ❏ Imaginary lines on maps (equator, Prime Meridian, Tropic of Cancer, Tropic of Capricorn etc.)
- ❏ Types of Remote Sensing
- ❏ GPS
- ❏ Cartographer

3. Geologic Time

- ❏ Four geologic eras
- ❏ Uniformitarianism
- ❏ Meteorites contribution to the formation of the Earth
- ❏ Fossil formation process
- ❏ K-T boundary
- ❏ Extinctions
- ❏ Fossils and type of rock they are found in
- ❏ Fossil fuels - types and how they form
- ❏ Principles of Relative Dating
  - ❏ Law of Superposition
  - ❏ Law of Horizontality
  - ❏ Unconformities
- ❏ Absolute Dating - radioactivity
- ❏ Half Life

4. Plate Tectonics

- ❏ Pangea
- ❏ Continental drift (who, when, what?)
- ❏ Layers of the earth and their state of matter including lithosphere, asthenosphere etc...
- ❏ Plate tectonics - causes, where does energy come from, effects
- ❏ Plate boundary types
  - ❏ Interaction of boundaries and features formed
- ❏ Sea floor spreading
- ❏ Pacific Ring of Fire
- ❏ Seismic waves (P waves, S waves and surface waves) speed and amount of destruction
- ❏ Shock waves
- ❏ Tsunami
- ❏ Magma - composition composition and resulting eruption characteristics
- ❏ Formation of a laccolith
- ❏ Compare and contrast volcanic eruptions on the Earth's surface with intrusive volcanic activity