

Mrs. Whittaker: Advanced Earth Science

Unit 1: Reading and Note Guide

Chapter 1, 29, and 28 (Yes, it's out of order!)

### Assignment 1

Key Terms You Should See:

- Earth Science
- Atmosphere
- Lithosphere
- Asthenosphere
- Hydrosphere
- Biosphere
- Scientific methods
- Hypothesis
- Variables
- Independent variable
- Dependent variable
- Extraneous variable\*
- Constants
- Control
- Scientific theory
- Scientific law

Read the sections indicated below and answer the questions given on a separate piece of paper. Questions should be answered in neat and complete sentences and numbered.

Read Pgs 2-9

1. List the major areas of specialization (branches) of Earth Science and in a word or two describe each area.
2. Of the subspecialties, which do you find most interesting? Why?
3. List the four "spheres" and identify the main characteristics of each and be able to give examples of how they interact. (if you have paper from class you should only need a few additional notes here)

Read Pgs 11-13

4. Scientific Method: know the terms, be able to identify them in a scenario, and set up an experiment identifying the components. \*No question here – just be ready :)

Read Pg 19

5. Define theory and law. Give an example of each.

Read Pgs 775-776

6. What is geocentric and what evidence did early astronomers have that led them to believe this model?
7. What kind of motion encouraged scientists to look for another model of the solar system? What was this new theory called?