ES 106
Earth Systems Science III

*Earth Science, 12th Ed., Tarbuck and Lutgens, 2009
Conceptual Physical Science, 4th ed., Hewitt, Suchoki and Hewitt, 2008*

**Introduction**
- No lab this week
- Bring lab manual next week!!
- Must pass lab to pass this class!!
- Instructors will give percent lab grade to one another

**Population trend**

**Resources, Hazards**

**Scientific Inquiry**
- Gather data
- Formulate plausible explanations
- Devise tests and predictions
- Revise, reject or accept explanations

**Data Collecting**

**Hypothesis vs. Theory**
- Hypothesis is an explanation that requires testing
- Theory has been tested, and is supported by the evidence, and predicts things not used to formulate the hypothesis
- Paradigm is a theory that explains wide ranging sets of observations
Big Bang forms all matter

Nebular Hypothesis
- Formed our solar system
  - Sun
  - Planets
  - Asteroids and comets
- Rotating cloud of dust and gases collapses into these bodies

Solar system formed from nebular cloud

Properties of Earth's interior
- Lithosphere
- Asthenosphere
- Lower mantle
- Outer core
- Inner core

Composition
- Crust
- Mantle
- Core

Be sure to attend lab next week
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