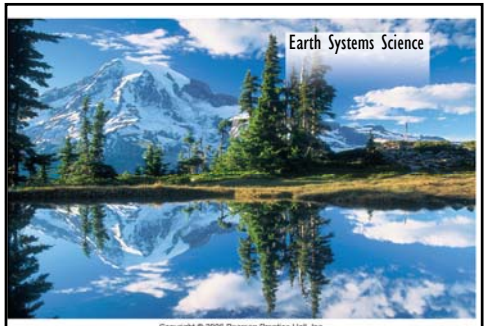


ES 106
Earth Systems Science III

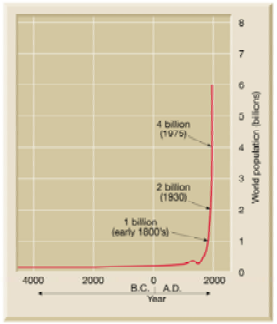
Earth Science, 12th Ed., Tarbuck and Lutgens, 2009

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

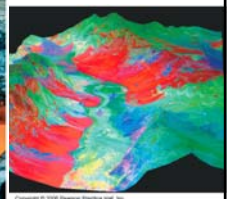


Resources, Hazards

Scientific Inquiry

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

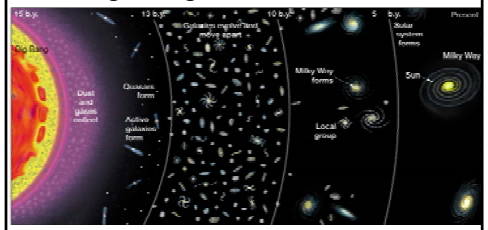
Data Collecting



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

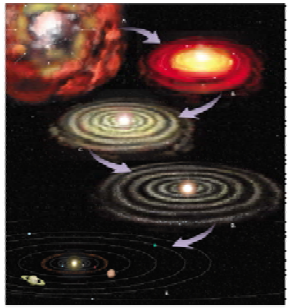
Big Bang forms all matter

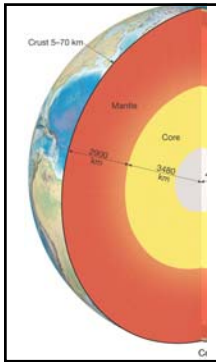


Nebular Hypothesis

- 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



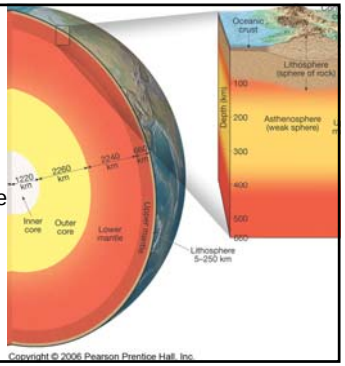


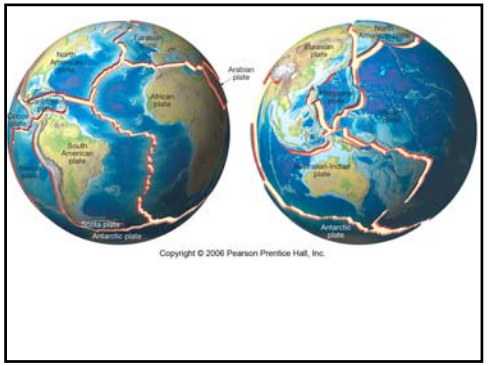
Composition

- Crust
- Mantle
- Core

Properties of Earth's interior

Lithosphere
Asthenosphere
Lower mantle
Outer core
Inner core





Be sure to attend lab next week

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