Chapter 1: Earth as a System (pp 3-6, 13-18, and notes from class)

History of geology
- James Ussher (1650)
- Nicolaus Steno (1669, see pgs 8 and 28)
- Abraham Gottlob Werner (1787)
- Baron Georges Cuvier (late 1700's, pg 128) - Catastrophism
- James Hutton (1795) - Uniformitarianism
- Charles Lyell (1830's)

Earth Internal Structure
- Physical Classification (state of rock, compositions, thicknesses, etc.)
- Chemical Classification (type of rock, densities, thicknesses, etc.)

Chapter 8: The Theory of Plate Tectonics (all, and notes from class)

History of Plate Tectonics
- Sir Francis Bacon (1650's, continents fit together)
- Principles of Geology (Charles Lyell, 1830's)
- Continental Drift (Wegener, 1915)
  - Theory and Supporting evidence
  - Earths Magnetism and Apparent Polar Wandering
  - Maurice Ewing (seafloor bathymetry)
  - Bruce Heezen and Marie Tharp (1st map of seafloor)
  - Sea Floor Spreading (Hess, 1962)
  - Theory and Supporting evidence
- Sea-floor striping (Vine and Mathews, 1964)

Structure of a Plate
- Types of Plate Boundaries (and examples)
  - Convergent (ocean-ocean, ocean-continent, continent-continent)
  - Divergent
  - Transform

Hot Spots

Chapter 9: Continental Tectonics and Mountain Chains

Types of deformation (brittle vs. ductile) (controls on each)
- Joints
  - Types of faults and stresses associated with each (see Ch. 8, pp. 189-190)
    - Normal / Lystric
    - Reverse / Thrust
    - Strike-slip
    - Horsts and grabens

Types and causes of ductile deformation
- Anticline (Symmetrical, Asymmetrical, Recumbent/overturned folds)
- Syncline (Symmetrical, Asymmetrical, Recumbent/overturned folds)
- Monocline
- Domes and Basins