

Text chapters 1 through 6 (partial) and 8: you should be able to answer the questions at the end of these chapters

#### Factoids

- Geologic Time Scale (names of periods and years: see frontspiece of text)
- Linnaean classification
- Present day major wind belts and ocean gyres
- Milankovitch cycles
- Steno's Laws
- Unconformity types
- Principle of Fossil Succession

#### Definitions

vascular plants	epeiric sea	trace fossil
facies	gymnosperm	benthic
transgression	angiosperm	pelagic
regression	stromatolite	orogeny
closed system	degassing	albedo
fossil	progradation	ichnofossil
vascular plants		

#### Concepts

- The rock cycle and its relationship to plate tectonics
- types of plate boundaries and their characteristics
- Controls on climate (temperature and precipitation)
- Controls on thermohaline circulation
- Climate proxies (lithologic, geochemical, biologic): examples of each
- Oxygen stable isotope use as a climate indicator
- Intertropical convergence zone; how it moves seasonally
- Conditions that would produce overall global warming or global cooling or greater/lesser latitudinal zonation than today's climate.
- The six kingdoms of life and their characteristics
- Modes of fossilization
- Characteristics of the major invertebrate phyla (Molluscs, Cnidaria, Arthropods, Brachiopods, Bryozoa, Echinoderms, Porifera)
- Sedimentary rock types and their use in reconstructing ancient environments, particularly the application of Hjulstrom diagram to interpreting energy levels; Froude Number for the relationship between velocity and depth; the significance of rock compositions to reconstructing paleogeography
- Recognition of transgression and regression
- Apparent Polar Wandering..what it means, why it confirms plates move
- Determining the sequence of events from a cross section of the Earth