

## **Midterm Study Guide - Historical Geology**

### **Chapter 1-3: Intro to Earth History**

Nicolaus Steno: **Superposition, Original Horizontality, Lateral Continuity**

James Hutton: **Uniformitarianism, Geologic Time**

Charles Lyell: **Cross-cutting Relationships, Inclusions**

William Smith: **Biological Succession**

Geologic Time Scale: Eon, Era, Period, Epoch

Relative and Absolute Age Dating Methods

Isotopic Age Dating: U-Pb, K-Ar, Rb-Sr, C-14, Fission Track

### **Chapter 4: Earth Materials**

Minerals and Rocks

Common Igneous Rock Forming Minerals: **Quartz, feldspars, micas, ferromags (incl. olivine)**

Sedimentary Rock Forming Minerals: **Clay, quartz, calcite, gypsum, halite, dolomite**

Rock Cycle: Igneous (volcanic and plutonic), Sedimentary, Metamorphic

Igneous: **Basalt, andesite, rhyolite, gabbro, diorite, granite, peridotite**

Sedimentary: **clastic, chemical, biogenic**

Metamorphic: **foliated and non-foliated**

### **Chapter 5: The Sedimentary Archives**

Environments of Deposition: **Marine, Transitional, Terrestrial**

Meaning of **color** in sedimentary rocks

Texture of SedRx: **Grain size, Angularity, Sorting, Maturity**

**Sedimentary Structures:** Paleocurrent Indicators, Geopetal Indicators, Environmental Indicators

**Formation, Member, Group**

Transgression (onlap sequence); Regression (offlap sequence)

Facies

Correlation Methods

Unconformities: **Nonconformity, Angular Unconformity, Disconformity**

Geologic Column, Cross-Section, Geologic Maps

Paleogeographic map, Lithofacies map

### **Chapter 6: The Fossil Record**

Bias and incompleteness of the fossil record

Requirements for fossilization: hard parts and quick burial

Mode of fossilization: unaltered, permineralization, replacement, recrystallization, cast/mold, trace, carbonization

Use of Index Fossils and fossil assemblages in age dating and correlation

Use of fossils as environmental indicators: endemic and cosmopolitan species

Nektonic, planktonic and benthic life forms (infaunal and epifaunal)

Littoral, sublittoral, neritic, pelagic, abyssal environments

Marine ecosystems and food chain (paleoecology)

Linnaean System of Classification: Definition of genus and species

# Historical Geology Study Guide

**Anthony S. Fauci**



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