Exam #2 Review Sheet

Chapter 5: (Sedimentary Rocks)

- Chemical vs Physical Weathering
  - Transformation of Granite into Sediment
  - Dissolution, Hydrolysis, Oxidation
- Clastic vs Chemical Sediment
- Fossil Fuels
- Lithification
  - Compaction, Cementation
- Classification and Textures
  - Grain Size, Sorting, Rounding, Particle size, Composition
- Sedimentary Structures
  - Bedding, mudcracks, cross-bedding, dunes, ripples, graded beds, turbidity currents

Chapter 6: (Metamorphic Rocks)

- Metamorphism
- Metamorphic Grade
- Controlling Factors of metamorphism
  - Temperature, pressure (normal stress, shear stress, strain), fluid interaction
- Textures
  - Foliation
    - Preferred orientation
    - Alternating bands of different minerals
    - Flattening and stretching of minerals
- Index Minerals
- Classification of Metamorphic rocks
- Types of metamorphism
  - Contact, Regional, Hydrothermal

Chapter 7: (Geologic Time Scale)

- Relative vs Absolute Age
- 6 Principles
  - Superposition
  - Original Horizontality
  - Cross-Cutting Relationship
  - Inclusions
  - Lateral Continuity
  - Faunal Succession
- Geologic Time Scale
  - Eons, Eras, Periods, Epochs, Age
- Unconformities
  - Angular, Disconformity, Nonconformity
- Radioactivity
  - Isotopes, radioactive decay, half-life, parent and daughter ratio