Exam 3 Review

**Chapter 15 Shoreline Systems**

* How does a water particle travel within a wave
* Know the parts of a wave
* Where does a wave get its energy
* What happens to a wave as it reaches shallow water
* What happens to a wave when it reaches an irregular shoreline
* What caused the sand on a beach – how did it get there
* What is longshore drift
* What is the major source of beach sediment

**Chapter 16 Eolian Sand**

* What is Eolian mean
* What is a rain shadow
* Where do deserts form
* What is a ventifact
* what are the different ways that sand is moved
* how does a sand dune migrate
* different sand dunes how do they form
* What is loess how is it transported
* How does desertification occur

**Chapter 17 Plate Tectonics**

* What is Continental Drift, who termed it, what is the evidence used
* Who first observed sea floor spreading
* Where are the youngest and oldest, more and less dense rocks, thicker / thinner located
* Where does the evidence come from that supported Plated Tectonics
* Magnetic reversals
* Thermal convection
* Lithospheric plates

**Chapter 18 Seismicity & Earths Interior**

* Know the difference between P, S and Surface waves
* What causes and earthquake
* Focus vs. epicenter
* Where do earthquakes originate
* The distribution of earthquakes on Earth
* Interior of the Earth

**Chapter 19 Divergent Plate Boundaries**

* Iceland
* Africa – rift
* Mid ocean ridge
* Pillow lavas
* Rock type
* Ages, temp, subsidence
* Ophiolite

**Chapter 20 Transform Plate Boundaries**

* Zone of shearing
* How does it look
* Features
* San Andreas

**Chapter 21 Convergent Plate Boundaries**

* Andes Mountains
* Composite volcano composition
* Alaskan Aleutian islands
* 3 different types (O-O, O-C, C-C)
* Himalayan Mtns
* Mount St. Helens

**Chapter 22 Hotspots and Mantle Plumes**

* The Columbia Plateau
* Hawaii
* Seamounts
* Intraplate volcanic activity
* Iceland

**Chapter 23 Tectonics and Landscapes**

* What types of rock make up the continental crust
* What is a horst and graben
* What is a dendritic drainage pattern
* Basin and range region
* Sediments associated with continental shelf region