Chapter 10 and 11 Earthquakes Test Study Guide: Geology 1P, Mr. Traeger

Section	Major Questions to be asked and/or	Where do I find the information and/or where
	tasked to be measured	did we learn this?
11.2	 How Mountains Form What are the types of stress in the earth? What are synclines and anticlines? What is strike? What is dip? How can knowing both of them help a geologist to map the subsurface geology of sedimentary folds? Why does oil become trapped in anticlines? What are the types of faults in the earth¢ crust? What is a hanging wall? What is a foot wall? What is the difference between normal, reverse thrust and strike align faults? 	 Section 11.2 HW Itts Not My Fault, Graben, and Horst Lab Internet Investigations ES1102 and ES1106 Online Earthquake PowerPoints <i>Killer Quake</i> video and questions <i>Putting Down Roots in Earthquake Country</i> Booklet
44.0	reverse, thrust, and strike-slip faults?	
11.3	 Types of Mountains How do folded mountains form? How do dome mountain form? How do fault block mountains form? What is horst? What is graben? How were the mountains and valleys of the Basin and Range province of the Western United States formed? 	 Section 11.3 HW Itts Not My Fault, Graben, and Horst Lab Internet Investigations ES1102 and ES1106 Online Earthquake PowerPoints <i>Killer Quake</i> video and questions <i>Putting Down Roots in Earthquake Country</i> Booklet
10.1	How and Where Earthquakes Occur	 Section 10.1 HW
	 How do earthquakes relate to plate tectonics? What causes earthquakes? What are the different types of earthquake waves? What are their characteristics? 	 Seismic Waves and Plotting Earthquakes Lab Online Earthquake PowerPoints <i>Killer Quake</i> video and questions <i>Putting Down Roots in Earthquake Country</i> Booklet
10.2	 Locating and Measuring Earthquakes What is a seismograph and how does it work? How do you interpret a seismogram? How do you locate the epicenter of an earthquake? Know how to read a seismogram, calculate P-S travel time differences, calculate the distance to an earthquake, and triangulate an earthquake epicenter. What is the difference between intensity and magnitude? What scales are used to measure each? What is the Mercalli Intensity Scale? By how much does the energy of an earthquake change between scales of magnitude? What is moment magnitude? What are the things that determine the moment magnitude of an earthquake? 	 Section 10.2 HW Seismic Waves and Plotting Earthquakes Lab Magnitude versus Intensity Activity <i>Killer Quake</i> video and questions Online Earthquake PowerPoints <i>Putting Down Roots in Earthquake Country</i> Booklet
10.3	Earthquake Hazards	 Section 10.3 HW
10.0	 What are hazards associated with earthquakes? What are tsunamis? How do they form? What should you do to avoid getting killed by one? How do you calculate the time it will 	 Section 10.3 HW Killer Quake video and questions Magnitude versus Intensity Activity Online Earthquake PowerPoints Putting Down Roots in Earthquake Country Booklet

Section	Major Questions to be asked and/or tasked to be measured	Where do I find the information and/or where did we learn this?
	 take a tsunami wave to reach a distant shoreline from its point of generation? Hint: rate x time = distance How does the ground type that you live on determine the intensity of the earthquake? What can you do to prevent earthquake damage and loss of life? What goes into a good earthquake safety kit? What makes a good earthquake safety plan? What should you do when an earthquake strikes? What shouldnd you do? What are the areas of major earthquake risk in the world? Can we predict earthquakes? If so, how? How do differences in engineering determine the amount of damage received by structures? 	