Unit 4 Geography – Content Assignments

4.1	4.1 Layers in the Earth		
	Activity	Date Completed	
	VIDEO: Structure of the Earth		
	VIDEO: Why does the Earth have layers?		
	VIDEO: DIY science earth's layers pop up card		
	ACTIVITY: In this video Rob demonstrates how to create a simple pop up card which identifies the		
	layers of the earth. I challenge you to create a similar pop up card. Your project MUST include		
	the following layers: inner core, outer core, lower mantle, upper mantle and crust.		
	Your project will also include a brief description of each layer (ex. what is it made of? is it solid or		
	liquid? how thick is it?).		
4.2 Plate Tectonic Movement			
	Activity	Date Completed	
	VIDEO: The Early Earth and Plate Tectonics		
	VIDEO: Plate Tectonics Explained		
	While you watch this video, pay particular attention to the explanation of how tectonic plates		
	move.		
	WORKSHEET: Earthquakes Living Lab: The Theory of Plate Tectonics		
	Download and complete the Earthquakes Living Lab Worksheet (thanks to the		
	teachengineering.org website), and complete questions 1,2,3,4,5,6,7 and 9.		
	VIDEO: Tectonics of the Planet Earth		
	ONLINE ARTICLE: Theory of Plate Tectonics		
	VIDEO: Modeling Plate Tectonics		
	ACTIVITY: In this video watch how students model plate tectonics using graham crackers and		
	icing.		
	Now it's your turn, your task is to model plate tectonic boundaries. You may use whatever you		
	like to model the three types of plate boundaries:		
	1. Convergent (including continental-continental, oceanic-oceanic and continental-oceanic)		
	2. Divergent		
	3. Transform		
	Your model should also include a brief description (either written or oral) of each plate boundary.		
	What is happening? Where is this happening? How is this happening?		

4.3	4.2 Farth makes and Valores as		
4.5	B Earthquakes and Volcanoes Activity	Date Completed	
	VIDEO: Volcanoes 101	Date Completed	
	VIDEO: Voicanoes Form		
	VIDEO: Farthquakes 101		
	VIDEO: What is an earthquake?		
	VIDEO: Seismic Slinky		
	ONLINE ARTICLE: Seismic Zones in Western Canada		
	RESEARCH PROJECT:		
	Select ONE of the following topics to research:		
	1) Research a significant earthquake that has occurred in British Columbia Present your research in the form of a poster on 11x17 paper. Your poster will include: • At least two images (both must be referenced in the writing) • Date of the earthquake • Size of the earthquake • Result of the earthquake (What was the damage? Where people displaced? Etc) • Location of the earthquake (including epicenter and depth of focus) • Type of fault the earthquake occurred on • Describe the three types of earthquake waves: primary(P-waves), secondary(S-waves) and surface waves (L-waves) • All references must be listed (including image source) 2) Research a volcano located in British Columbia Present your research in the form of a poster on 11x17 paper. Your poster will include: • At least two images (both must be referenced in the writing) • When was the volcano losated • Has the volcano located • Has the volcano ever erupted? If so what damage did it cause? • What is the nearest community (or communities) to the volcano? • What damage would the volcano cause if it erupted? • Is the volcano likely to erupt? • What type of volcano is it • All references must be listed (including image source)		
4.4	Major Geological Events of Local Significance		
	Activity	Date Completed	
	VIDEO: Megaquake Could Hit North America		
	ONLINE ARTICLE: Get Ready for the Big One		
	ONLINE ARTICLE: Indian Ocean Tsunamis in Legend		
	ACTIVITY: Another way in which First Peoples preserve their history is through stories. In the		
	article titled Dating the 1700 Cascadia Earthquake: Great Coastal Earthquakes in Native Stories,		
	the authors Ruth S. Ludwin et al. describe how historical stories from First Peoples about		
	earthquakes and flooding are being taken seriously by the scientific community. In their article on page 144 read one such story titled Indian Ocean Tsunamis in Legend.		
	AUDIO: Unearthing Proof of a Tsunami in the Northwest		
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	Listen to this National Public Radio broadcast about the 2005 Indian Ocean Tsunami. ONLINE ARTICLE: Ghosts of Tsunamis Past		