

Unit 3: Plate Tectonics and volcanoes

Learning Targets Guide

Self Evaluation			Learning Targets	Date
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	<i>E2.1B: I can analyze the interactions between the major systems (geosphere, atmosphere, hydrosphere, biosphere) that make up the Earth.</i>	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	<i>E2.2C: I can explain, using specific examples, how a change in one system affects other Earth systems.</i>	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	<i>E2.2A: I can describe the Earth's principal sources of internal and external energy (e.g., radioactive decay, gravity, solar energy).</i>	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	<i>E2.2C: I can describe natural processes in which heat transfer in the Earth occurs by conduction, convection, and radiation.</i>	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	<i>E3.p3A: I can describe geologic, paleontologic, and paleoclimatologic evidence that indicates Africa and South America were once part of a single continent.</i>	
Example or Explain:				

Self Evaluation			Learning Targets	Date
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	E3.p3B: I can describe the three types of plate boundaries (divergent, convergent, and transform) and geographic features associated with them (e.g., continental rifts and mid-ocean ridges, volcanic and island arcs, deep-sea trenches, transform faults).	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	E3.p3C: I can describe the three major types of volcanoes (shield volcano, stratovolcano, and cinder cones) and their relationship to the Ring of Fire.	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	E3.3A: I can explain how plate tectonics accounts for the features and processes (sea floor spreading, mid-ocean ridges, subduction zones, earthquakes and volcanoes, mountain ranges) that occur on or near the Earth's surface.	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	<i>E3.3B: I can explain why tectonic plates move using the concept of heat flowing through mantle convection, coupled with the cooling and sinking of aging ocean plates that result from their increased density.</i>	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	E3.3C: I can describe the motion history of geologic features (e.g., plates, Hawaii) using equations relating rate, time, and distance.	
Example or Explain:				

Self Evaluation			Learning Targets	Date
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	E3.3d: I can distinguish plate boundaries by the pattern of depth and magnitude of earthquakes.	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	E3.4A: I can use the distribution of earthquakes and volcanoes to locate and determine the types of plate boundaries.	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	<i>E3.4B: I can describe how the sizes of earthquakes and volcanoes are measured or characterized.</i>	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	<i>E3.4C: I can describe the effect of earthquakes and volcanic eruptions on humans.</i>	
Example or Explain:				
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	E3.4d: I can explain how the chemical composition of magmas relates to plate tectonics and affects the geometry, structure, and explosivity of volcanoes.	
Example or Explain:				

Self Evaluation			Learning Targets	Date
I've got it! <input type="checkbox"/>	I've sort of got it. <input type="checkbox"/>	I don't get it. <input type="checkbox"/>	E3.4e: I can explain how volcanoes change the atmosphere, hydrosphere, and other Earth systems.	
Example or Explain:				
UNIT NOTES AND COMMENTS:				