Name: Answer Key Period:

Ch. 9 Plate Tectonics: Study Guide

Vocabulary

8.4 Earth's Layered Structure: crust, ρ. 232 montle, ρ. 234 lithosphere, ρ. 234 asthenosphere, ρ. 235 outer core, ρ. 235; inner core, ρ. 235;

9.1 Plate Tectonics: continental drift, ρ. 248 Pangaea, ρ. 246, plate tectonics, ρ. 254 divergent boundary, ρ. 255 convergent boundary, ρ. 255 transform fault boundary, ρ. 255, ridge, ρ. 256 seafloor spreading, ρ. 259 subduction zone, ρ. 261 trench, ρ. 261 paleomagnetism, ρ. 265, hot spot, ρ. 266

Reviewing Content

Choose the letter that best answers the question or completes the statement.

200	What is the weaker, hotter zone beneath the lithosphere that allows for motion of Earth's rigid outer shell?		
	a Crust		uter core
	b.) Asthenosphere	d.	nner core
2	Most of Earth's earthquakes, volcanoes, and mountain building occur		
	 a. in the center of continents. 		t plate boundaries.
	 b. in the Himalayas. 	0.	at volcanic island arcs.
3	Alfred Wegener is best known for what hypothesis?		
	a. plate tectonics	(c.) c	continental drift
	 b. seafloor spreading 	d s	ubduction
4.00	Complex mountain systems such as the Himalayas are the result of		
	 a. oceanic-oceanic convergence. 	F 0	ontinental volcanic arcs.
	b. hot spots.	(d) c	ontinental-continental convergence
5.	What is the type of plate boundary where two plates move together, causing one of the slabs of lithosphere to descend into the mantle beneath an overriding plate?		
	a oceanic-continental convergent	6.00	ransform fault
	D. Divergent	d. c	continental-continental convergent
6.	One of the main objections to Wegener's hypothesis of continental drift was that he was unable to provide an		
	acceptable		
	 a. rate of continental drift. 		nechanism of continental drift.
	 b. date of continental drift. 	d. 0	lirection of continental drift.
7.	Which one of the following was NOT used as support of Wegener's continental drift hypothesis?		
	a fossil evidence		the fit of South America and Africa
	Paleomagnetism	d. a	incient climates
es.	At what type of plate houndary do plates move apart, resulting	on in the impossifi	ing of material from the martie to

Use the diagram below to answer Questions

Convergent

create new seafloor? a. Divergent

- 9. What feature is labeled B?
 a continental volcanic arc
 a trench
 continental lithosphere
 d. an ocean ridge
- The process occurring at the location tabeled D is a. oceanic lithosphere being created.
 b. continental lithosphere being created.
 a continental-continental collision occurring.
 oceanic lithosphere being subducted.



transform fault.

Subduction

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O García

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