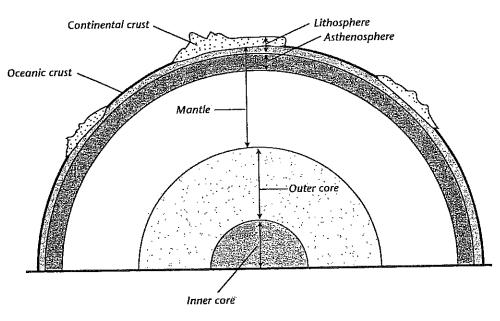
Name:	Class	s:	Date:	ID: B
Plate Te	ctonicss			
ompletic	on each sentence or statement.			
1.	When continental plates pull ap	art at a divergent bounda	ry on land, a(n)	forms.
2.	The lithosphere is broken into seasthenosphere.	ections called	, which float	on top of the
3.	Wegener believed that the continents had once been joined in one landmass called			
4.	. The hypothesis of was that all the continents once were joined as a single supercontinent and have since drifted apart.			
5.	The ocean floor sinks beneath a deep-ocean trench and back into the mantle in a process known as			
6.	Earthquakes produce	that trave	el through Earth.	
7.	Scientists think that the magnetic field.	, made	of liquid iron and nickel, me	oves to produce Earth's
8.	Subduction occurs where the oc	eanic crust bends down	toward the mantle at a(n)	
9.	The energy from the sun that wa	arms your face is transfe	rred by a process called	
10.	In the mantle, heat is transferred	mantle, heat is transferred as soft rock flows slowly in cycles known as		
11.	The part of the mantle called the	e	_ is made of soft rock that l	bends like plastic.
12.	To support his hypothesis, Alfreancient organisms preserved in	ed Wegener provided evi rock.	dence from	, traces of

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Short Answer

Use the diagram to answer each question.

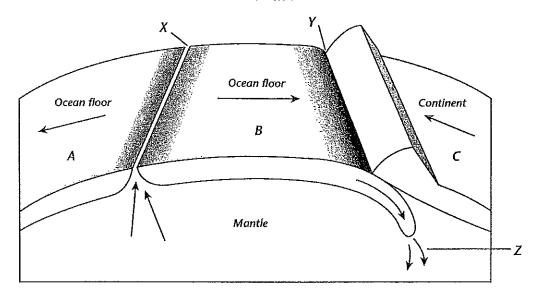
Earth's Interior



- 13. Pressure increases with depth toward the center of Earth. In which layer would you expect pressure to be the greatest?
- 14. The asthenosphere is part of which layer of Earth?
- 15. Based on the diagram, describe one of the major differences between oceanic crust and continental crust.
- 16. Earth's solid inner core is surrounded by the hot, molten metal of which layer?
- 17. According to the theory of plate tectonics, which layer of the earth is broken into separate sections called plates?

Use the diagram to answer each question.

Plate Boundaries



- 18. What is happening at Z?
- 19. What feature occurs at X and how does it form?
- 20. Which type of plate boundary occurs at Y?
- 21. Identify the three plates in the diagram and name the materials that make up each plate.
- 22. What feature occurs at Y, and how does it form?
- 23. Which type of plate boundary occurs at X?

Essay

- 24. Describe how the shapes of present-day continents support the theory of continental drift.
- 25. Compare and contrast the outer core and the inner core.
- 26. Were Africa and South America ever joined? Cite evidence from a landform and fossil to support your answer.
- 27. Describe the convection currents that occur inside Earth.
- 28. According to the theory of plate tectonics, explain what causes changes in Earth's surface.

Name: _			ID: B
Multiple Identify		nice tter of the choice that best completes the statement or answers the question.	
2	9. In	sea-floor spreading, molten material rises from the mantle and erupts	
	a.	along mid-ocean ridges.	
	b.	1	•
	c.	e e	
	d.	in deep-ocean trenches.	
3	0. M	fost geologists rejected Alfred Wegener's idea of continental drift because	
	a.		
	Ъ.	·	
	C.		
_	d.	31	
3		collision between two pieces of continental crust at a converging boundary produces a	
	a. 1-	1	
	b.		
	c. d.	•	
2		Most geologists think that the movement of Earth's plates is caused by	
	۷. iv. a.		
	b.	•	
•	c.		
	d.		
3	3. A	any trace of an ancient organism that has been preserved in rock is called a	
	a.	* **	
	b		
	c.	. fossil.	
	d.	. continent.	
3	4. W	Vhat is Pangaea?	
	a.		
	b		
	c.	, ,	
	d.		
3	5. A	According to Wegener's hypothesis of continental drift,	
	a.	, , ,	
	b.	, , , , , , , , , , , , , , , , , , ,	
	C.		
2	d.	Ž , , , , , , , , , , , , , , , , , , ,	. 41 - 41
3		The geological theory that states that pieces of Earth's lithosphere are in constant, slow motion is	the theory
	o: a.		
	а. Ъ		
	C.	AL 11	
	d	-	
		•	

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 37.	When the heat source is removed from a fluid, convection currents in the fluid will a. change direction. b. speed up. c. eventually stop. d. continue at the same rate forever.
38.	Using data from seismic waves, geologists have learned that Earth's interior is made up of several a. trenches. b. continents. c. ridges. d. layers.
 39.	 When you touch a hot pot or pan, energy moves from the pot to your hand. This is called a. magnetic energy. b. heat transfer. c. indirect evidence. d. subduction.
 40.	Earth's mantle is a. a layer of molten metal. b. a layer of hot rock. c. a layer of rock that forms Earth's outer skin. d. a dense ball of solid metal.
 41.	What is the correct order (starting from the surface) of Earth's layers? a. outer core, inner core, crust, mantle b. crust, mantle, outer core, inner core c. mantle, outer core, inner core, crust d. crust, outer core, inner core, mantle
 42.	Earth's magnetic field results from movements in the a. crust. b. inner core. c. mantle. d. outer core.
 43.	Scientists think that convection currents flow in Earth's a. inner core. b. mantle. c. lithosphere. d. continents.
 44.	The transfer of energy through empty space is called a. radiation. b. conduction. c. subduction. d. convection.
 45.	Earth's inner core is a. a layer of rock that forms Earth's outer skin. b. a layer of molten metal. c. a layer of hot rock. d. a dense ball of solid metal.

Name:

Name:	ID:
46.	Heat transfer within a fluid takes place by a. convection currents. b. conduction. c. density. d. radiation.
47.	Which type of evidence was NOT used by Alfred Wegener to support his continental drift hypothesis? a. evidence from landforms b. evidence from human remains c. evidence from fossils d. evidence from climate
48.	The place where two plates come together is known as a a. convergent boundary. b. transform boundary. c. rift valley. d. divergent boundary.
49.	A rift valley forms at a a. transform boundary. b. convergent plate boundary c. deep-ocean trench. d. divergent plate boundary.

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