Study Guide

 1.	<ul> <li>The youngest rocks on the ocean floor are located</li> <li>a. near continents c. far from mid-ocean ridges</li> <li>b. at mid-ocean ridges d. near Asia</li> </ul>				
 2.	<ul> <li>2. Scientists have observed that the plates move at rates ranging from 1 cm to 12 cm per</li> <li>a. century</li> <li>b. decade</li> <li>c. day</li> <li>d. year</li> </ul>				
 3.	B. The presence of the same on several continents supports the hypothesis of continental drift.         a. fossils       c. neither a nor b         b. rocks       d. both a and b				
 4.	<ul> <li>the hypothesis that continents have slowly moved to their current locations is called</li> <li>a. continental drift</li> <li>b. continental slope</li> <li>c. magnetic reversal</li> <li>d. convection</li> </ul>				
 5.	<ul> <li>5. The alignment of iron minerals in rocks when they are formed reflects the fact that Earth's has itself several times in the past.</li> <li>a. magnetic field c. asthenosphere</li> <li>b. core d. gravity</li> </ul>	s reversed			
 6.	<ul> <li>A lack of explanation for continental drift prevented many scientists from accepting that a single supercontinent called once existed.</li> <li>a. Glomar c. Pangaea</li> <li>b. Glossopteris d. Wegener</li> </ul>				
 7.	<ul> <li>7. The <i>Glomar Challenger</i> provided support for the theory of plate tectonics by providing</li> <li>a. high-altitude photos of existing continents</li> <li>b. samples of plant life from mid-ocean ridges</li> <li>c. samples of older rock found far from mid-ocean ridges</li> <li>d. direct measurements of the movement of continents</li> </ul>				
 8.	<ul> <li>Seafloor spreading occurs because</li> <li>a. new material is being added to the asthenosphere</li> <li>b. earthquakes break apart the ocean floor</li> <li>c. sediments accumulate at the area of spreading</li> <li>d. molten material beneath Earth's crust rises to the surface</li> </ul>				
 9.	<ul> <li>While studying the ocean floor, scientists found bands of magnetism.</li> <li>a. plastic c. no</li> <li>b. alternating d. rectangular</li> </ul>				
 10.	<ul> <li>Continental drift states that continents have moved to their current location.</li> <li>a. vertically c. quickly</li> <li>b. slowly d. very little</li> </ul>				
 11.	<ul> <li>Wegener believed that the continents originally broke apart about years ago.</li> <li>a. 200 million c. 400 million</li> <li>b. 300 million d. 500 million</li> </ul>				
 12.	<ul> <li>A fossil plant that helps support the theory of continental drift is</li> <li>a. <i>Mesosaurus</i> c. <i>Glomar</i></li> </ul>				

	b. Glossopteris	d.	Pangaea			
13.	Matching on different continents are ev a. river systems b. rock structures	videnc c. d.	e for continental drift. weather patterns wind systems			
Matching						
	Match each term with the correct statement below.					
	a. seafloor	c.	continents			
	b. Pangaea	d.	lithosphere			

- \_\_\_\_\_ 14. Alfred Wegener believed that the \_\_\_\_\_ were once joined.
- 15. The name \_\_\_\_\_ comes from two words that mean "all land."
- \_\_\_\_\_ 16. The *Glomar Challenger* gathered information about rocks on the \_\_\_\_\_.

## **Short Answer**

- 17. Why did Alfred Wegener believe that all of the continents once had been joined?
- 18. Figure 7-2 shows the puzzlelike fit of South America and Africa. Explain some of the other evidence used to support the hypothesis of continental drift.



- 19. What new technology was used to map the seafloor beginning in the 1940s and 1950s?
- 20. Explain how the ages of rocks on the ocean floor support the theory of seafloor spreading.

Be able to explain converge, diverge, and transform and the landforms they make