Continental Drift Hypothesis

Modified True/False Indicate whether the statement is true or false. If false, change the identified word or phrase to make the statement true.						
	1.	Some early mapmakers thought that the coastline	of South America matched the coastline of Asia.			
	2.	Scientists at the time rejected Wegener's hypothes why Earth's continents move.	sis of continental drift because he could not explain how or			
Multiple Identify of the qu	the	choice that best completes the statement or answe	rs the question. Write the letter on the blank line to the left			
	1.	The crust and upper mantle make up Earth's				
		a. lithosphereb. asthenospherec.	core			
		o. asthenosphere d.	continents			
	2.	Scientists have observed that the continents move	apart or come together at speeds of a few centimeters per			
		a. century c.	day			
			year			
	3	The presence of the same on several contine	nts supports the hypothesis of continental drift			
	٥.		neither a nor b			
		b. rocks d.	both a and b			
	4.	The hypothesis that continents have slowly moved	d to their current locations is called .			
		a. continental drift c.	magnetic reversal			
		b. continental slope d.	convection			
	5.	A lack of explanation for continental drift prevent supercontinent called once existed.	ed many scientists from accepting that a single			
			Pangaea			
		b. Glossopteris d.	Wegener			
	6.	Continental drift states that continents have moved to their current location.				
		a. vertically c.	quickly			
		b. slowly d.	very little			
	7.	Wegener believed that the continents were assemb	oled as part of a supercontinent about years ago.			
		a. 250 million c.				
		b. 300 million d.	500 million			
	8.	A fossil plant that helps support the theory of con-	tinental drift is			
		a. Mesosaurus c.				
		b. Glossopteris d.	Pangaea			
	9.	The existence of coal beds in Antarctica indicates	that the continent once had			
		a. been part of Africa c.	a cold, dry climate			

	b. a temperate, rainy climate	d.	been farther from the equator
10.	is a fossil fern that helped support Weger a. <i>Gondwanaland</i> b. <i>Kannemeyerid</i>	c.	hypothesis of continental drift. Mesosaurus Glossopteris
11.	Many early mapmakers thought Earth's contin a. plate boundary locations b. fossil evidence	c.	had moved based on climatic data matching coastlines
Matching			
	Match each term with the correct statement be a. mantle b. plate tectonics	c.	continents lithosphere
1.	Alfred Wegener believed that the were	e onc	re joined.
2.	The crust and upper mantle make up the		
Short Ans	wan		
1.	Point out two changes that occur between the	65 m	ya time period and the present. (2 points)
	65 Million Years Ago Present)	
2.	2. Alfred Wegener developed the idea that the continents move slowly over time. First, identify and do three of the pieces of evidence Wegener used to support his hypothesis. Then, explain why other so not accept his hypothesis. (4 points)		

Continental Drift Hypothesis Answer Section

MODIFIED TRUE/FALSE

1. ANS: F, Africa

PTS: 1 DIF: Bloom's Level 2 | DOK 1-LOW

REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-1

STA: 5.4.6.D.2 | 5.4.6.B.3

2. ANS: T PTS: 1 DIF: Bloom's Level 2 | DOK 1-LOW

REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-2

STA: 5.4.6.D.2 | 5.4.6.B.3

MULTIPLE CHOICE

1. ANS: A

The cold and rigid outermost rock layer is called the lithosphere. It is made up of the crust and the solid, uppermost mantle.

PTS: 1 DIF: Bloom's Level 1 | DOK 1-LOW

REF: To review this topic refer to Plate Tectonics: Lesson 3 OBJ: 7-5

STA: 5.4.6.B.1 | 5.4.6.D.1

2. ANS: D

Continents move apart or come together at speeds of a few centimeters per year.

PTS: 1 DIF: Bloom's Level 1 | DOK 1-LOW

REF: To review this topic refer to Plate Tectonics: Lesson 3 OBJ: 7-6

STA: 5.4.8.D.2

3. ANS: D

Fossils of similar organisms have been found on several continents separated by oceans. If you could superimpose similar rock types onto the maps, these rocks would be in the area where Africa and South America fit together.

PTS: 1 DIF: Bloom's Level 1 | DOK 1-LOW

REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-1

STA: 5.4.6.D.2 | 5.4.8.D.2

4. ANS: A

Wegener proposed the hypothesis of continental drift, which suggested that continents are in constant motion on the surface of Earth.

PTS: 1 DIF: Bloom's Level 1 | DOK 1-LOW

REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-2

STA: 5.4.6.D.2 | 5.4.8.D.2

5. ANS: C

Over time Pangaea began breaking apart, and the continents slowly moved to their present positions.

PTS: 1 DIF: Bloom's Level 1 | DOK 1-LOW

REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-2 STA: 5.4.6.D.2 | 5.4.8.D.2 6. ANS: B Over time Pangaea began breaking apart, and the continents slowly moved to their present positions. DIF: Bloom's Level 1 | DOK 1-LOW REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-2 STA: 5.4.8.D.2 7. ANS: A When Wegener pieced Pangaea together, he proposed that South America, Africa, India, and Australia were located closer to the South Pole 250 million years ago. DIF: Bloom's Level 1 | DOK 1-LOW REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-2 STA: 5.4.8.D.2 8. ANS: B Fossils of *Glossopteris* have been found on many continents that are now separated by oceans. DIF: Bloom's Level 1 | DOK 1-LOW REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-1 STA: 5.4.6.B.1 9. ANS: B Antarctica must have been warmer and wetter when these plants were alive. PTS: 1 DIF: Bloom's Level 2 | DOK 1-LOW REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-1 STA: 5.4.6.D.1 | 5.4.8.D.2 10. ANS: D Fossils of *Glossopteris* have been found on many continents that are now separated by oceans. DIF: Bloom's Level 2 | DOK 1-LOW PTS: 1 REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-1 STA: 5.4.6.D.1 | 5.4.8.D.2 11. ANS: D

Hundreds of years ago mapmakers noticed this jigsaw-puzzle pattern as they made the first maps of the continents.

PTS: 1 DIF: Bloom's Level 2 | DOK 1-LOW

REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-1

STA: 5.4.6.B.3 | 5.4.6.D.2

MATCHING

1. ANS: C PTS: 1 DIF: Bloom's Level 2 | DOK 1-LOW REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-1

STA: 5.4.6.C.3 | 5.4.6.D.1 | 5.4.8.D.2

2. ANS: D PTS: 1 DIF: Bloom's Level 2 | DOK 1-LOW

REF: To review this topic refer to Plate Tectonics: Lesson 3 OBJ: 7-7

STA: 5.4.6.C.3 | 5.4.6.D.1 | 5.4.8.D.2

SHORT ANSWER

1. ANS:

India has collided with Asia to form the Himalayas. Australia has separated from Antarctica. A rift valley is forming in east Africa.

PTS: 1 DIF: Bloom's Level 4 | DOK 2-MOD

REF: To review this topic refer to Plate Tectonics: Lesson 1 OBJ: 7-1

2. ANS:

Evidence that Wegener used to support his theory included the way that the continents seemed to fit together like puzzle pieces, the location of similar fossils on separate continents, the presence of fossils from differing climatic conditions than were currently present in an area, and the presence of similar rock structures found on different continents. The one piece of information Wegener lacked that might have led more people to believe his idea was the explanation of the process or mechanism that moves the continents.

PTS: 1