	Name Date 4/17/19 Class
ì	Plate Tectonics - Section Summary Purpose for reading:
	Drifting Continents Find evidence that supports Key Concepts Continental Drift theory.
	What was Alfred Wegener's hypothesis about the continents?
(■ What evidence supported Wegener's hypothesis?
7	What evidence supported Wegener's hypothesis? Why was Alfred Wegener's theory rejected by most scientists of his day? In 1910, a young German scientist named Alfred Wegener became curious about why the coasts of several continents matched so well, like the pieces of a jigsaw puzzle. He formed a hypothesis that Earth's continents had moved! Wegener's hypothesis was that all the continents had once been
	named this supercontinent Pangaea, meaning "all lands." According to Wegener, Pangaea existed about 300 million years ago. Over tens of millions of years, Pangaea began to break apart. The pieces of Pangaea slowly moved
j	idea that the continents slowly moved over Earth's surface became known as continental drift. In a book called <i>The Origin of Continents and Oceans</i> , Wegener presented his evidence. Wegener gathered evidence from different scientific fields to support his ideas about continental drift. He studied land features, fossils, and evidence of climate change.
(Mountain ranges and other landforms provided evidence for continental drift. For example, Wegener noticed that when he pieced together maps of Africa and South America, a mountain range running from east to west in South Africa lines up with a range in Argentina. Also, European coal fields
-	match up with coal fields in North America. Possils also provided evidence to support Wegener's theory. A fossil is any trace of an ancient organism preserved in rock. The fossils of the reptiles Mesosaurus and Lystrosaurus and a fernlike plant called Glossopteris have been found on widely separated landmasses. This convinced Wegener that
	the continents had once been united. Wegener used evidence from climate change to further support his theory. For example, an island in the Arctic Ocean contains fossils of tropical plants. According to Wegener, the island once must have been located close to the equator. Wegener also pointed to scratches on rocks made by glaciers. Those scratches show that places with mild climates today once had climates
THE RESIDENCE OF THE PARTY OF T	cold enough for glaciers to form. According to Wegener's theory, Earth's Climate has not changed. Instead, the positions of the continents have
· Committee of the comm	Wegener also attempted to explain how the drift of continents took place. Unfortunately, Wegener could not provide a satisfactory explanation for the force that pushes or pulls the continents. Because he could not identify the cause of continental drift, most geologists rejected his theory. For nearly half a century, from the 1920s to the 1960s, most scientists paid little attention to the idea of continental drift. Then new evidence about Earth's structure led scientists to reconsider Wegener's bold theory. © Pearson Education, Inc., publishing as Pearson Prentice Hall. All rights reserved.
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