Name	Date Hour Scott Resources LaserDisc
	Plate Tectonics: The Puzzle of the Continents
	1. Alfred Wegener created the concepts that have become the
	basis for the modern theory of (?).
	2. Inspired by Wegener's hypothesis, plate tectonics has
	emerged as one of the greatest scientific theories of the (?)
	century.
	3. Wegener was curious about reports of 250 million year-old
	ferns and reptiles that had been dug out of rocks in (?), and
	Africa.
	4. Other rocks contained signs of glaciersa clue that Wegener
	interpreted as evidence for vast (?) in areas now covered by
	tropical forests.
	5. He called this giant supercontinent Pangaeameaning (?)
	6. By proposing the concept of continental drifthe believed that
	the lighter, less dense crust of the continents floated like blocks
	of ice on the more dense, stationary crust of the (?)
·	7. From matching fossils and sedimentary rocks, he theorized
	the existence of (?).
	8. By 1950 oceanographers had begun using echo sounding and
	sonar to map the details of the (?). 9. Scientists named them mid-ocean
	ridgestopographic features which encircle the (?) for a
	distance of 74,000 kilometers.
	10. In other places, they found steep volcanic cones called
	seamounts and deep arc-shaped trenches that border the edges of
	(?) and island chains.
	11. Geophysicists had new evidenceevidence of patterns that
	were marked by the locations of thousands of (?) and volcanoes.
	12. By the late 1960's, it was clear that enough evidence had
	been gathered to (?) Wegener's theory of continental drift.
	13. The Earth's outer crust, or (?), is divided into nine major
	tectonic plates that cover the Earth like pieces of a jigsaw puzzle. 14. Tectonic Plates, like pieces of cooling lava, are (?) but
	constantly moving slabs of crust.
	15. The first type is called a (?) boundary and is found along
	mid-ocean ridges where plates are actively separating.
	16. This process is called (?) because the crust of the ocean is
	literally spreading apart.
	17. Beneath the rigid lithosphere lies a weak, (?) layer called the
	asthenosphere.