

Directed Reading 10.2

Section: The Theory of Plate Tectonics

1. The theory that explains why and how continents move is called _____.
2. By what time period was there evidence supporting continental drift, which led to the development of plate tectonics?

HOW CONTINENTS MOVE

In the space provided, write the letter of the definition that best matches the term or phrase.

- | | |
|----------------------------|---|
| _____ 3. oceanic crust | a. the solid outer layer of Earth, which consists of the crust and the rigid upper part of the mantle |
| _____ 4. continental crust | b. dense crust made of rock that is rich in iron and magnesium |
| _____ 5. tectonic plates | c. blocks of Earth's shell that ride on a deformable layer of the mantle |
| _____ 6. lithosphere | d. solid, plastic layer of the mantle beneath the lithosphere |
| _____ 7. asthenosphere | e. low-density crust made of silica-rich rock |

9. Describe how continents and oceans are carried on tectonic plates.

TECTONIC PLATES

10. How many major tectonic plates have scientists identified?

13. A sudden movement along the boundary of a tectonic plate is a(n) _____.
14. Frequent earthquakes in a given zone are evidence that _____.
15. How do volcanoes help to identify the locations of plates boundaries?

Environmental Science Chapter 8 Section 1 Answer Key

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Environmental Science Richard T. Wright,Nancy M. Ostiguy,2005
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Addison-Wesley Introduction to Physical Science Michael B. Leyden,1988

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[Proceedings of the Annual Princeton Conference on Information Sciences and Systems](#) ,1969 [Dissertation Abstracts International](#) ,1986 **Study Guide for Race to Save the Planet Telecourse, 1999 Edition** Edward C. Wolf,1998-06-09

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