

Skills Worksheet

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 evidence supporting continental drift, which led to the development of plate tectonics, developed? _____

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, that 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 rock that is rich in silica |

8. What is "plastic" rock and how does it move? _____

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

TECTONIC PLATES

10. How many major tectonic plates have scientists identified? _____
11. Why are the boundaries of the tectonic plates not always easy to identify? _____

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Clemens Wendtner



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