Name ______ Date _____

Chapter 10 Volcanoes and Other Igneous Activity

Section 10.3 Plate Tectonics and Igneous Activity

This section discusses the relationship between plate boundaries and igneous activity.

Reading Strategy

Outlining After you read, complete the outline of the most important ideas in the section. For more information on this Reading Strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of your textbook.

Plate Tectonics and Igneous Activity

- A. Convergent Plate Boundaries
 - 1. Ocean-Ocean
 - > Ocusan-Continuent
- Divergent Boundaries
- g: Introplate Igneous Activity

Convergent Plate Boundaries

- What provides the mechanism by which mantle rocks melt and magma is produced? _____plate motions
- Circle the letter of the change that allows rock melting to begin at convergent plate boundaries.
 - a. decreasing pressure
 - b. decreasing temperature
 - water reducing the melting point
 - d. water raising the melting point
- 3. What landforms develop as a result of the volcanic activity that occurs where one oceanic plate descends beneath another oceanic plate? chains of volcances or volcanic island arcs
- Is the following sentence true or false? At ocean-continent plate boundaries, rising magma may change composition before reaching the surface.
- 5. Circle the letter of the answer that correctly completes the following sentence. At a convergent plate boundary, the fluids reduce the melting point of hot mantle rock enough for melting to begin when a sinking slab reaches a depth of about
 - (a) 100 to 150 km.

b. 500 to 550 km.

c. 700 to 750 km.

d. 1000 to 1500 km.

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