



Chapter Review

Plate Tectonics

Part A. Vocabulary Review

Directions: Write the term that matches each description below in the spaces provided. Then unscramble the letters in the boxes to reveal the mystery phrase.

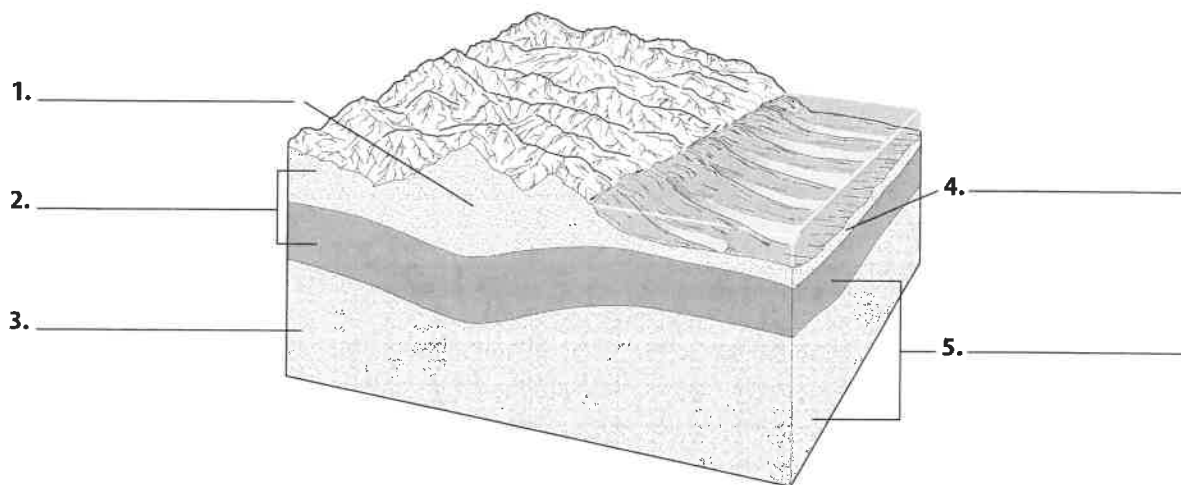
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1. plasticlike layer of Earth's surface below the lithosphere
2. cycle of heating, rising, cooling, and sinking
3. theory that states that Earth's crust and upper mantle are broken into sections, which move around on a special layer of the mantle
4. area where an oceanic plate goes down into the mantle
5. plate boundary that occurs when two plates slide past one another
6. place where two plates move together
7. rigid layer of Earth's surface made up of the crust and a part of the upper mantle
8. sensing device that detects magnetic fields, helping to confirm seafloor spreading
9. one large landmass hypothesized to have broken apart about 200 million years ago into continents
10. hypothesis that the continents have moved slowly to their current locations
11. boundary between two plates that are moving apart
12. sections of Earth's crust and upper mantle
13. largest layer of Earth's surface, composed mostly of silicon, oxygen, magnesium, and iron
14. outermost layer of Earth's surface
15. where rocks on opposite sides of a fault move in opposite directions or in the same direction at different rates
16. Mystery phrase:

Chapter Review (continued)

Part B. Concept Review

Directions: Study the following diagram. Then label the parts of Earth's surface.



Directions: Answer the following questions using complete sentences.

6. Compare and contrast divergent, convergent, and transform plate boundaries.

7. Describe how convection currents might be the cause of plate tectonics.

8. Why are new ideas often rejected, and what is needed before new ideas should be accepted?
