

Name: _____

Date: _____ Period: _____

Plate Tectonics

The Physical Setting: Earth Science

Worksheet: Crustal Activity

1. Which coastal area is most likely to experience a severe earthquake?
 - a. east coast of North America
 - b. east coast of Australia
 - c. west coast of Africa
 - d. west coast of South America

2. Fossils of organisms that lived in shallow water can be found in horizontal sedimentary rock layers at great ocean depths. This fact is generally interpreted by most Earth scientists as evidence that
 - a. the cold water deep in the ocean kills shallow water organisms
 - b. sunlight once penetrated to the deepest parts of the ocean
 - c. organisms that live in deep water evolved from species that once lived in shallow water
 - d. sections of the Earth's crust have changed their elevations relative to sea level

3. Folded sedimentary rock layers are usually caused by
 - a. deposition of sediments in folded layers
 - b. differences in sediment density during deposition
 - c. a rise in sea level after deposition
 - d. crustal movement occurring after deposition

4. The best evidence of crustal movement would be provided by
 - a. dinosaur tracks found in the surface bedrock
 - b. marine fossils found on a mountaintop
 - c. weathered bedrock found at the bottom of a cliff
 - d. ripple marks found in sandy sediment

5. The best evidence of crustal uplift would be provided by
 - a. marine fossils in the Rocky Mountains
 - b. sediments in the Gulf of Mexico
 - c. trenches in the Pacific Ocean floor
 - d. igneous rock deep within the Earth

6. Recent volcanic activity in different parts of the world supports the inference that volcanoes are located mainly in
 - a. the centers of landscape regions
 - b. the central regions of the continents
 - c. zones of crustal activity
 - d. zones in late stages of erosion

7. Which features are commonly formed at the plate boundaries where continental crust converges with oceanic crust?
 - a. large volcanic mountain ranges parallel to the coast at the center of the continents
 - b. a deep ocean trench and a continental volcanic mountain range near the coast
 - c. an underwater volcanic mountain range and rift valley on the ocean ridge near the coast
 - d. long chains of mid-ocean volcanic islands perpendicular to the coast

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8. Which coastal area is most likely to experience a severe earthquake?
 - a. west coast of America
 - b. central Australia
 - c. west coast of Africa
 - d. east coast of South America

9. Which best describes a major characteristic of both volcanoes and earthquakes?
 - a. They are related to the formation of glaciers.
 - b. They are restricted to the Southern Hemisphere.
 - c. They are located in the same geographic areas.
 - d. They are centered at the poles.

10. The primary cause of convection currents in Earth's mantle is believed to be caused by
 - a. differences in densities of earth materials
 - b. subsidence of the crust
 - c. occurrence of earthquakes
 - d. rotation of the Earth