

## Expert Geosphere: Plate Tectonics Paradigm

### True/False

Indicate whether the statement is true or false.

- \_\_\_\_\_ 1. Oceanic-continental collisions can result in volcanic activity.
- \_\_\_\_\_ 2. Hawaii is an example of an oceanic-continental convergence.

### Multiple Response

Identify one or more choices that best complete the statement or answer the question.

- \_\_\_\_\_ 3. An oceanic-continental plate boundary is:  
a. the same type as oceanic-oceanic   b. a convergent type   c. a divergent type
- \_\_\_\_\_ 4. As the sea floor ages, it:  
a. reflects cooling of the plates   b. becomes covered in sediments   c. gets pushed further and further from the mid-ocean ridge that formed it
- \_\_\_\_\_ 5. Spreading ridges on the ocean floor are characterized by:  
a. parallel patterns of aged crust   b. orthogonal (perpendicular) patterns of aged crust   c. transform faults

### Essay

- 6. How does continental-continental convergence form mountains?

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- 7. Why do most volcanoes appear as chains of mountains? What would explain volcanoes that are not part of a chain?

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- 8. Why do less dense plates ride over more dense plates in an oceanic-continental collision?

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- 9. What are some ways you can think of to measure the sea floor?

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