

# Changing Earth Study Guide

## Vocabulary Word Bank:

weathering

erosion

deposition

transform boundary

convergent boundary

divergent boundary

subduction zone

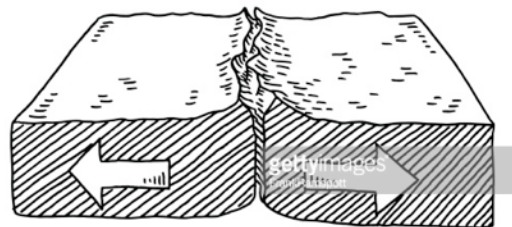
**Using the vocabulary from the word bank, write the word that matches each definition.**

1. \_\_\_\_\_ a place where tectonic plates grind past one another (horizontally)
2. \_\_\_\_\_ a place where tectonic plates slide apart from one another
3. \_\_\_\_\_ a process that breaks down rock into sediment
4. \_\_\_\_\_ a place where tectonic plates crash into one another
5. \_\_\_\_\_ a process that deposits (drops off) sediment
6. \_\_\_\_\_ a place where one tectonic plate slides under another tectonic plate
7. \_\_\_\_\_ a process that carries sediment away

**Label each diagram to tell what changes in Earth's surface each kind of boundary causes.**



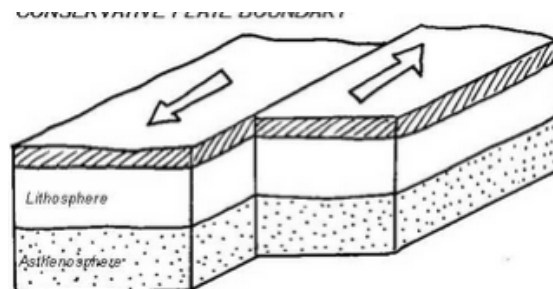
causes \_\_\_\_\_



causes \_\_\_\_\_



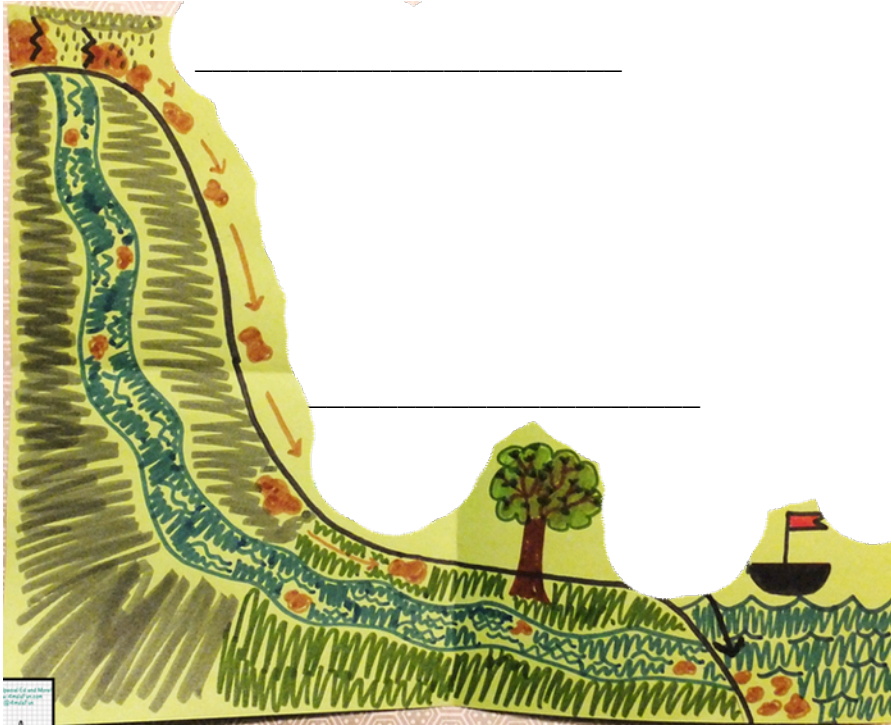
causes \_\_\_\_\_



causes \_\_\_\_\_

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On this diagram, label the correct sections: deposition, weathering, erosion



For each description, circle whether it is an example of weathering, erosion, or deposition. Be able to also answer different examples on the test!

1. flood water pounding against a canyon wall and wearing it down
  - a. weathering
  - b. erosion
  - c. deposition
2. waves dropping new sand onto a beach
  - a. weathering
  - b. erosion
  - c. deposition
3. caves being formed by acid rain dissolving underground limestone
  - a. weathering
  - b. erosion
  - c. deposition
4. rain washing away soil from a hillside
  - a. weathering
  - b. erosion
  - c. deposition
5. water getting into cracks, freezing, and breaking the rocks or pavement apart
  - a. weathering
  - b. erosion
  - c. deposition

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**Answer the following questions using complete, restating sentences and details!**

1. What are two types of physical weathering?

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2. What is one type of chemical weathering?

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3. What are three causes of erosion?

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4. What is one thing that humans can do to reduce soil erosion caused by wind and water?

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**Choose the correct answer to each question.**

1. What is the “Ring of Fire”?

- a. A circular area where many forest fires occur.
- b. A ring-shaped burn formed by lightning strikes.
- c. A horseshoe-shaped loop formed by many volcanoes.
- d. A giant ring filled with fiery lava made by the largest volcano in the world.

2. What are tectonic plates?

- a. wide, flat plains
- b. giant mountains
- c. glaciers that are floating on ocean water
- d. large slabs of rock on which the surface of the earth sits

3. True or False? Tectonic plates move and shift.

- a. True
- b. False

4. Where are volcanoes most likely to occur?

- a. Convergent Boundaries
- b. Divergent Boundaries
- c. Transform Boundaries
- d. Subduction Zones

5. True or False? The Ring of Fire touches only one continent.

- a. True
- b. False