

Content Vocabulary **Chapter 7.3 Review** **LESSON 3**

The Theory of Plate Tectonics

Directions: Each of the sentences below is false. Make the sentence true by replacing the underlined word(s) with a term from the list below. Write your changes on the lines provided.

- | | | | |
|------------|---------------------------|--------------------------|-------------|
| convection | convergent plate boundary | divergent plate boundary | lithosphere |
| plastic | plate tectonics | ridge push | slab pull |
| subduction | transform plate boundary | | |

- _____ 1. A tectonic material is something that is capable of changing shape without breaking.

- _____ 2. A transform plate boundary is one where two plates collide.

- _____ 3. Two plates separate at a convergent plate boundary.

- _____ 4. Two plates slide by each other at a divergent plate boundary.

- _____ 5. The sinking of a denser plate below a more buoyant plate is called convection.

- _____ 6. Slab pull is a consequence of the rising mantle of ocean ridges.

- _____ 7. Basal drag is the force produced by the sinking of a plate.

- _____ 8. Ridge push is the theory that Earth's surface is made of slowly moving rock plates.

- _____ 9. The rigid outermost rock layer of Earth is the mantle.

- _____ 10. Plate tectonics occurs when material circulates through differences in density.

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Content Practice A**LESSON 3****The Theory of Plate Tectonics**

Directions: Respond to each statement in the space provided.

1. **Explain** what a divergent plate boundary is.

2. **Draw** a diagram that shows a divergent plate boundary.

3. **Explain** what a transform plate boundary is.

4. **Draw** a diagram that shows a transform plate boundary.

5. **Explain** what a convergent plate boundary is.

6. **Draw** a diagram that shows a convergent plate boundary.

Key Concept Builder 

LESSON 3

The Theory of Plate Tectonics

Key Concept What are the three types of plate boundaries?

Directions: Answer each question on the lines provided.

<p>1. What is a plate boundary?</p>	<p>2. Where does a divergent plate boundary form?</p>	<p>3. Where does a convergent plate boundary form?</p>
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Directions: Put a check mark in the space that correctly identifies the type of boundary.

Plate Location	Divergent Plate Boundary	Convergent Plate Boundary
African Plate—South American Plate		
North American Plate—Juan de Fuca Plate		
African Plate—Antarctic Plate		
Eurasian Plate—Philippine Plate		
North American Plate—Pacific Plate		
Arabian Plate—African Plate		
Cocos Plate—Nazca Plate		
Caribbean Plate—North American Plate		
Indo-Australian Plate—Pacific Plate		

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Lesson Quiz A

LESSON 3

The Theory of Plate Tectonics

Multiple Choice

Directions: On the line before each question or statement, write the letter of the correct answer.

- _____ 1. The theory of _____ states that Earth's surface consists of plates that move relative to one another.
 - A. plate tectonics
 - B. continental drift
 - C. seafloor spreading

- _____ 2. What is the lithosphere?
 - A. a layer of crust
 - B. a layer of mantle
 - C. a layer of crust and solid upper-most mantle

- _____ 3. What is the asthenosphere?
 - A. a rigid layer of rocks in the crust
 - B. a layer of Earth's crust and mantle
 - C. a plastic layer of rock in the mantle

- _____ 4. Two plates slide past each other at a
 - A. divergent plate boundary.
 - B. transform plate boundary.
 - C. convergent plate boundary.

- _____ 5. Ridge push is the result of
 - A. convergence at a plate boundary.
 - B. rising mantle at a plate boundary.
 - C. plates sliding past each other at a boundary.

Matching

Directions: On the line before each definition, write the letter of the term that matches it correctly. Each term is used only once.

- | | |
|--|---------------------|
| _____ 6. type of boundary where two plates separate | A. convection |
| _____ 7. type of boundary where two plates collide | B. convergent plate |
| _____ 8. force that drags a plate into the mantle | C. divergent plate |
| _____ 9. circulation of material caused by temperature and density differences | D. slab pull |

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