

The Lithosphere and Asthenosphere

Use with textbook page 290.

1. Describe how the following terms are related:

a) lithosphere and crust

b) lithosphere and mantle

c) asthenosphere and mantle

2. What is the key role of the asthenosphere in the theory of plate tectonics?

3. What characteristics of the asthenosphere make it suitable for moving Earth's tectonic plates?

4. One analogy compares the asthenosphere to toothpaste or melted tar. Come up with your own analogy to describe the asthenosphere.

5. Use the Venn diagram to compare and contrast continental and oceanic crust.

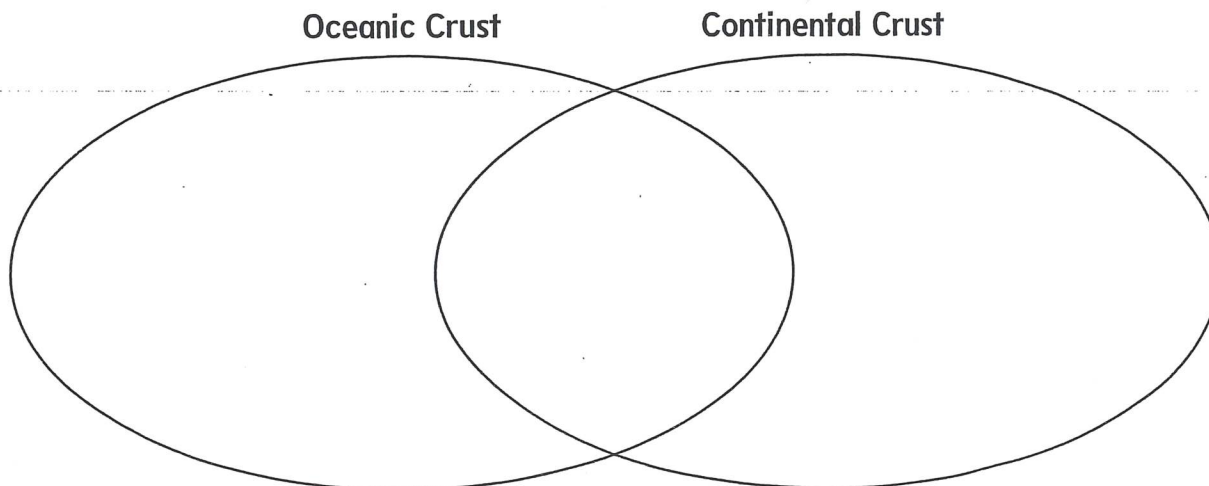
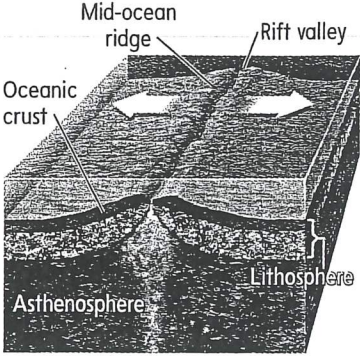
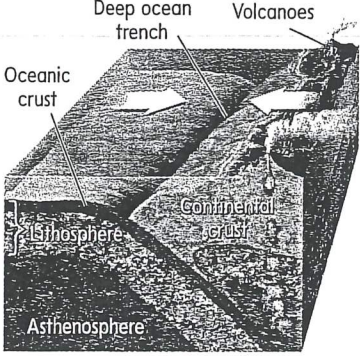
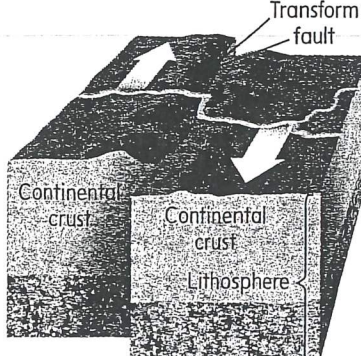


Plate Boundaries

Use with textbook pages 291-292.

1. Identify each type of plate boundary shown in the table, and describe the type of geological activity that occurs at that boundary.

<p>Plate Boundary:</p> <hr/>	<p>Plate Boundary:</p> <hr/>	<p>Plate Boundary:</p> <hr/>
		
<p>Geological Activity</p>	<p>Geological Activity</p>	<p>Geological Activity</p>

2. Use your understanding of divergent and convergent plate boundaries to explain why the surface of Earth is not getting any larger or smaller.
