

Lithosphere and Asthenosphere Practice Worksheet

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1. Stresses on the lithosphere may cause it to break and cause an earthquake.
 - a. TRUE
 - b. FALSE

2. The separation between the lithosphere and asthenosphere is made on the basis of mechanical properties.
 - a. TRUE
 - b. FALSE

3. The asthenosphere rests on the lithosphere.
 - a. TRUE
 - b. FALSE

4. This layer is made up of both the crust and uppermost mantle.
 - a. Asthenosphere
 - b. Mesosphere
 - c. Lithosphere
 - d. None of the above

5. The lithosphere is the portion of the Earth where rock acts as a fluid.
 - a. TRUE
 - b. FALSE

6. The lithosphere and asthenosphere have their mechanical characteristics because
 - a. Seismic waves bend as they travel between layers inside the planet.
 - b. There is an increase in temperature with depth.
 - c. Seismic waves bend with an increase in pressure in the planet.
 - d. There is a decrease in temperature with depth.

7. The lithosphere is composed of _____.
 - a. the crust and a portion of the upper mantle
 - b. the land and oceans
 - c. the crust and the oceans
 - d. the crust only

8. The asthenosphere is not a part of Earth's mantle.

- a. TRUE
- b. FALSE

9. Asthenosphere is _____.

- a. Stress that squeezes rocks
- b. Stress that stretches rock
- c. Rigid and strong
- d. Viscous and weak

10. The thickness of the lithosphere is _____.

- a. 200 km
- b. 300 km
- c. 400 km
- d. 100 km

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