

## 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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