

Name _____

Date _____

Exploration: Earth's Interior

Drag the appropriate words using the information found in **Discovery ED's Earth's Interior Exploration**.

Objective: investigate the physical properties of the Earth's interior.

Word Bank:

asthenosphere tectonic plates temperature rocks thicker lithosphere silicates
brittle away oxides sinks iron liquid outer S-waves solid
beneath **denser**

Lithosphere

1. The physical properties of the Earth's layers are determined by _____ density, and pressure.
2. The _____ is the outermost layer which includes the crust and the mantle.
3. The lithosphere is _____ and will break under stress.
4. The lithosphere is broken into fragments called _____.
5. The crust under mountains is _____ than under oceans.
6. The continents move _____ from divergent boundaries.
7. The old lithosphere _____ below at subduction zones.
8. The mineral composition of the lithosphere consists of _____.

Asthenosphere

9. The _____ is solid.
10. The _____ of the asthenosphere move by convection currents.
11. The mineral composition of the asthenosphere consists of _____ and nickel magnesium silicates.

Mesosphere

12. The mesosphere is located _____ the asthenosphere.
13. The mesosphere is _____ and hotter than the asthenosphere.
14. The mineral composition of the mesosphere consists of silicates and _____.

Outer Core and Inner Core

15. The Earth's magnetic field may have been created by the movement of the _____ metal.

16. Scientists know that the outer core is liquid because seismic waves known as _____ can not travel through liquids.
17. The _____ core is composed of iron and nickel.
18. The seismic waves indicate that the inner core is _____ because the waves speed up.