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.