

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.