

Name: _____

Earthquakes

Date: _____ Period: _____

Earth Science

Packet: Earth's Interior

CLASS NOTES

- Earth's interior structures are known through the study of _____
- Seismic waves _____, _____, change _____ and are _____ depending on the material they are transmitted through
- Lithosphere- _____

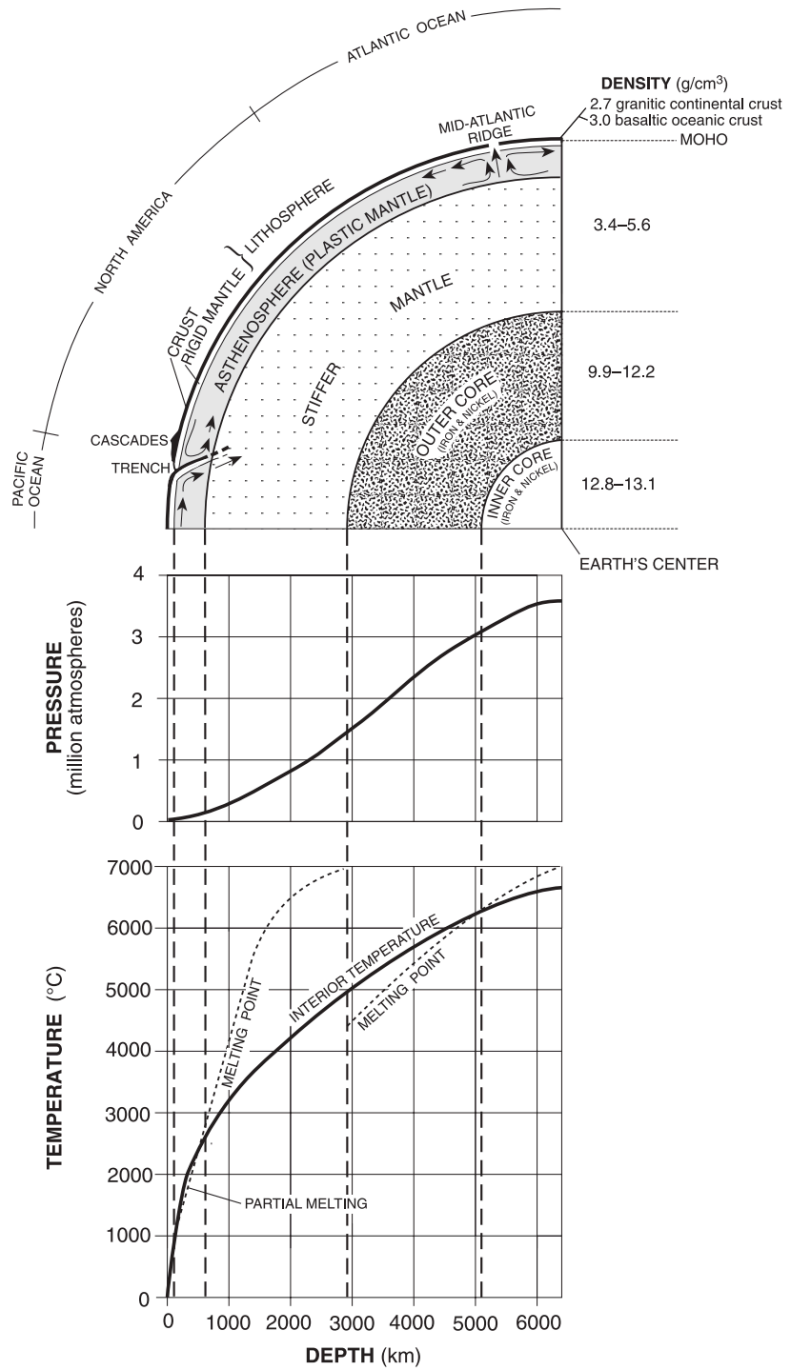
 - Granitic Continental Crust - _____ part of the crust [100 km] that has a density of _____ g/cm³
 - Basaltic Oceanic Crust - _____ part of the crust [2-3 km] that has a density of _____ g/cm³
- Moho - thin interface separating the lithosphere from the asthenosphere
 - Andrija Mohorovicic' discovered it the boundary when seismic waves changed velocity
- Asthenosphere [plastic mantle] - _____

 - Convection currents within the asthenosphere cause the continents to move
 - Seismic waves _____ in velocity
- Stiffer Mantle - _____

- Outer Core - _____ layer of Earth's interior composed of iron and nickel
 - Seismic waves are _____ or _____

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- Inner Core - _____ layer of Earth's interior composed of iron and nickel
 - Seismic waves _____ in velocity



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PART I QUESTIONS: MULTIPLE CHOICE

- At 4,500 kilometers below the surface of the Earth, the pressure is estimated to be
 - 4 million atmospheres
 - 2.0 million atmospheres
 - 2.8 million atmospheres
 - 3.1 million atmospheres
- The rate of temperature increase below the Earth's surface is greatest between depths of
 - 3500 and 4000 km
 - 250 and 500 km
 - 1500 and 2500 km
 - 2500 and 3500 km
- In which group are the layers of Earth's interior correctly arranged in order of increasing density?
 - crust, mantle, inner core, outer core
 - crust, mantle, outer core, inner core
 - inner core, outer core, mantle, crust
 - outer core, inner core, mantle, crust
- The temperature of rock located 1,000 kilometers below the Earth's surface is about
 - 200 °C
 - 2,100 °C
 - 2,800 °C
 - 3,200 °C
- As the depth within the Earth's interior increases, the
 - density, temperature, and pressure decrease
 - density increases, but temperature and pressure decrease
 - density and temperature increase, but pressure decreases
 - density, temperature, and pressure increase
- Which zone of the Earth's interior is inferred to have a density of 10.0 grams per cubic centimeter?
 - outer core
 - inner core
 - crust
 - mantle
- Inside Earth's interior, what is the approximate temperature between the outer core and inner core?
 - 2500° C
 - 5000° C
 - 6200° C
 - none of the above