

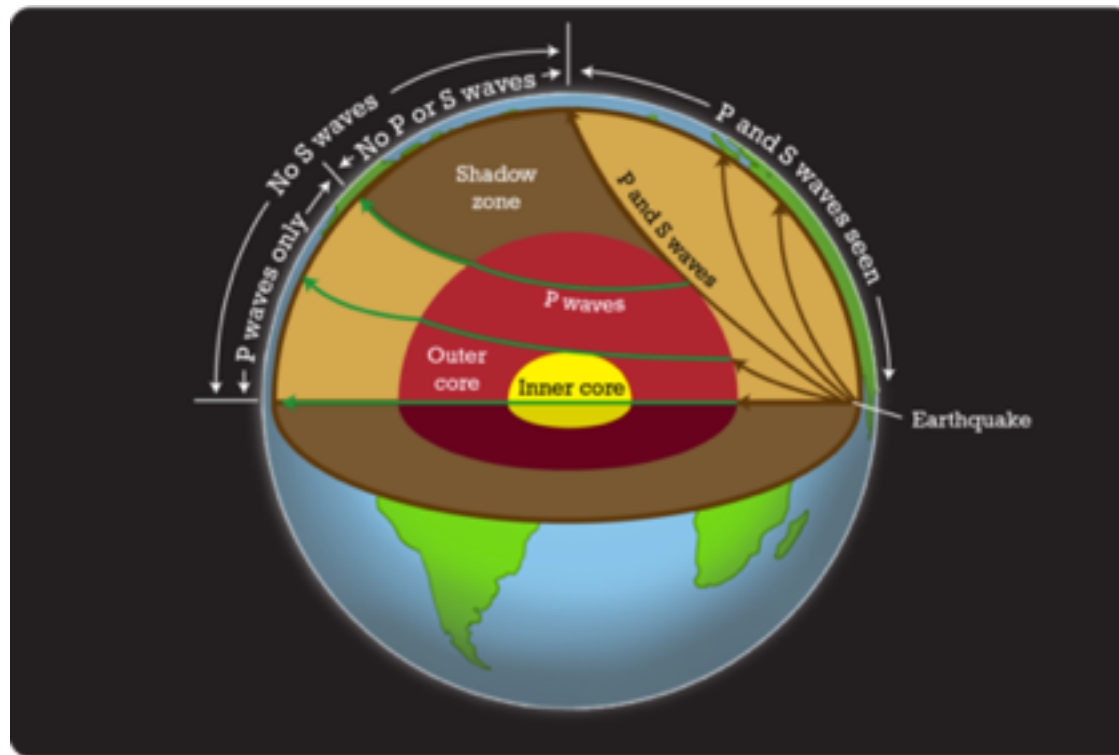
Guided Notes

Plate Tectonics

2.1 Earth's Interior

How are we able to study Earth's interior?

- Analyzing [earthquake waves](#), [volcanoes](#), and [meteorites](#).



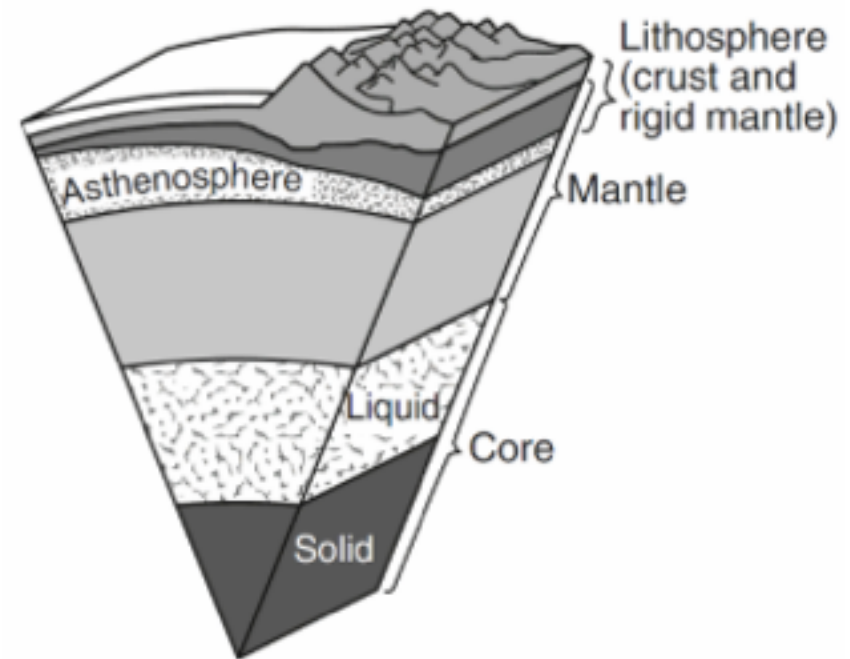
What is the Earth's interior composed of?

- The Earth's interior is made up of four layers (see diagram below & ESRT page 10)

1. Lithosphere: Solid, outer layer of the Earth

a. _____

b. _____



(Not drawn to scale)

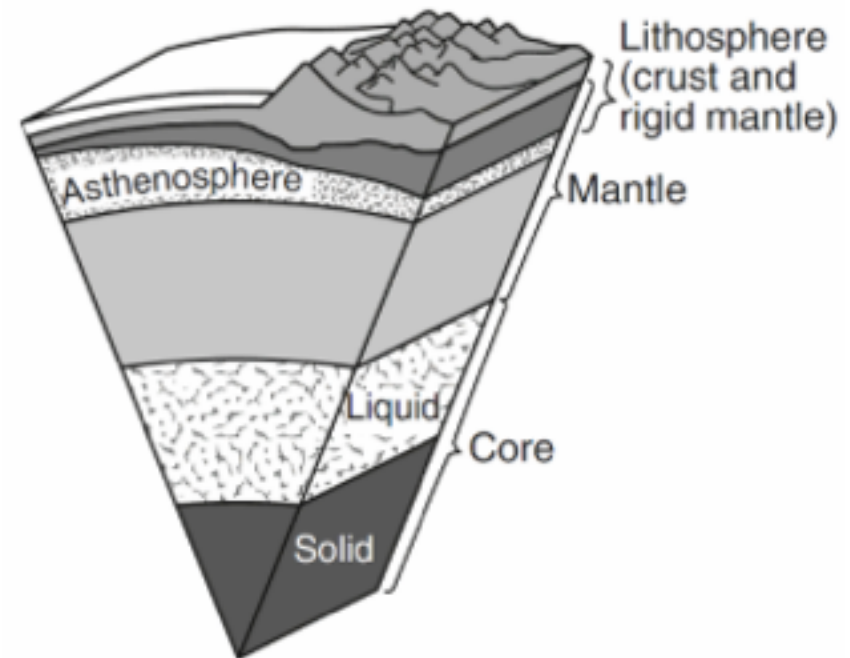
What is the Earth's interior composed of?

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2. Mantle: Part solid, part liquid layer

a. _____

b. _____



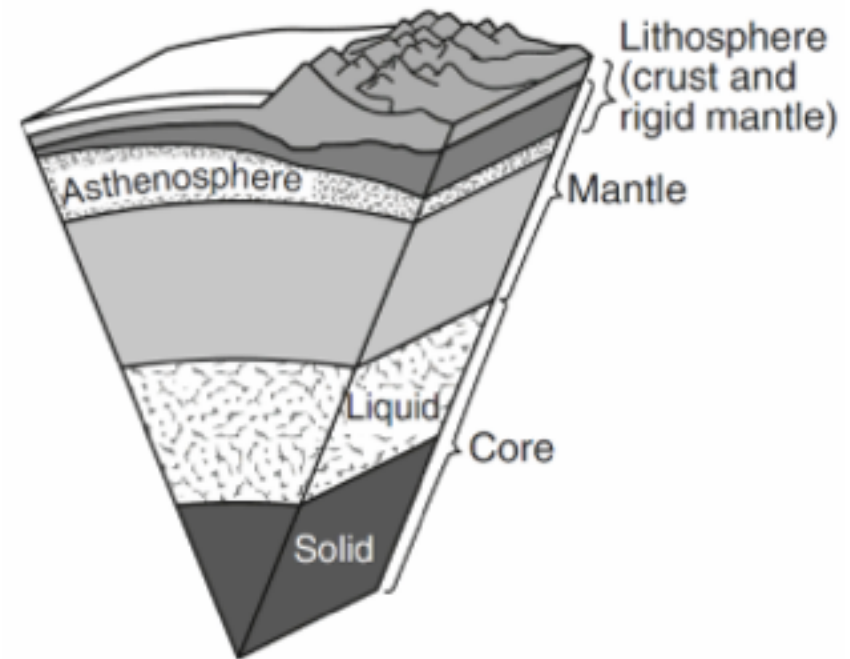
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3. Outer Core: **Liquid**

4. Inner Core: **Solid**



(Not drawn to scale)

Inferred Properties of Earth's Interior

Information about Earth's interior has been gathered indirectly through seismic (earthquake) waves and meteorites.

There are 2 types of crust:

DENSITY (g/cm³)
2.7 granitic continental crust
3.0 basaltic oceanic crust

MOHO

Boundary between crust and mantle

3.4–5.6

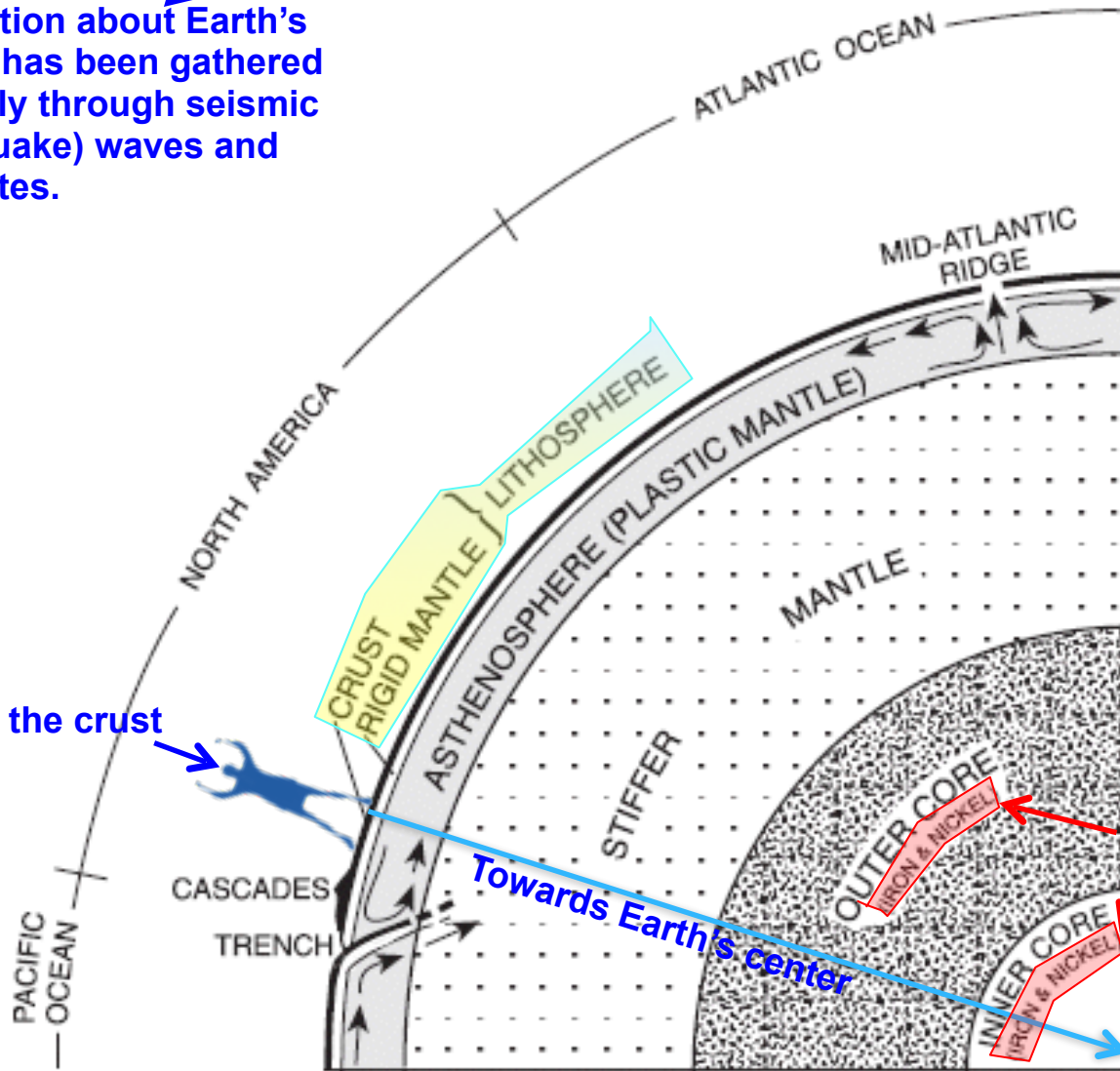
As depth increases, density increases.

9.9–12.2

Metallic

12.8–13.1

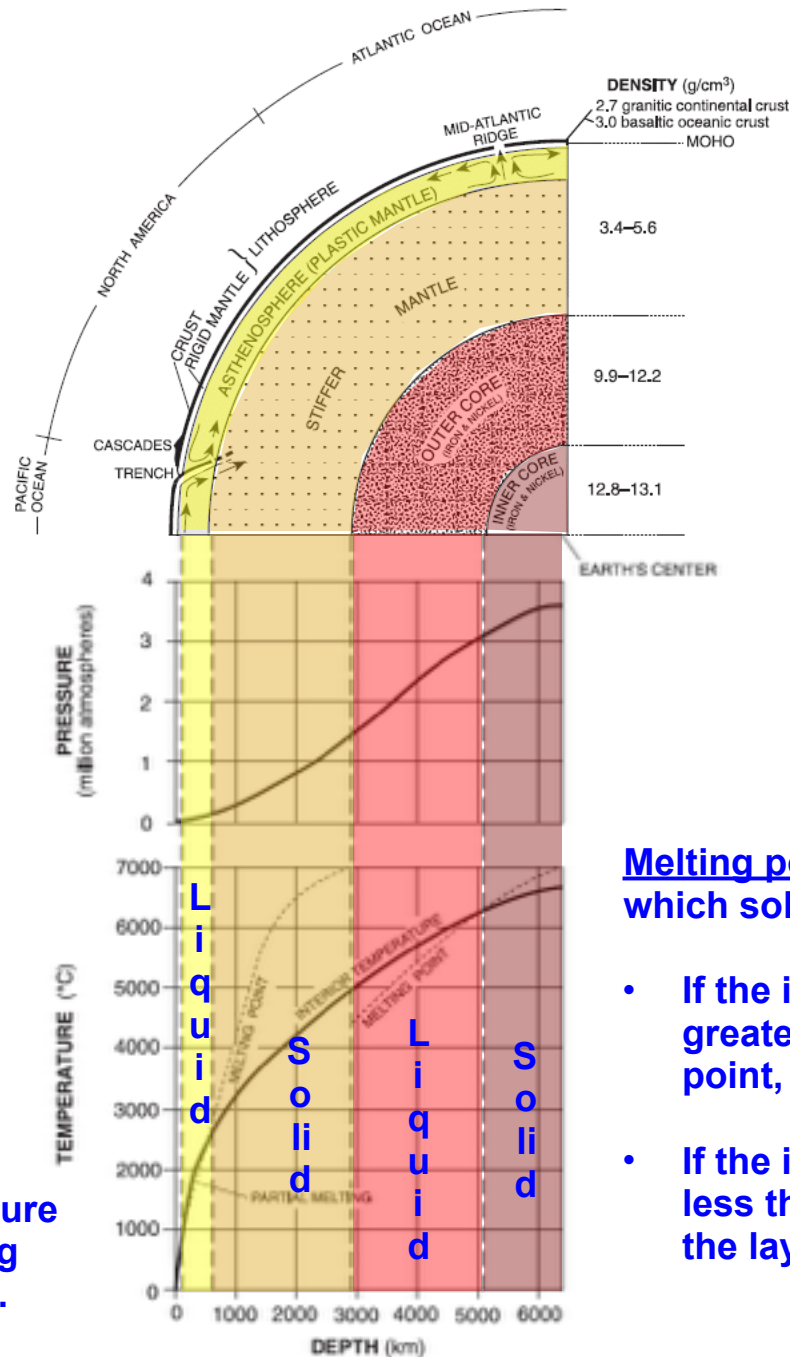
EARTH'S CENTER



We live on the crust

Towards Earth's center

Inferred Properties of Earth's Interior



What are the two types of crust?

- **Two Types of Crust (See ESRT page 10)**



Thickness	Very thick Thickest under mountains	Thin layer Drilling for oil is easier here
Composition	Granite (felsic)	_____
Density	Less dense (2.7 g/cm³)	_____

Watch Core of the Earth [Video](#)

(On website)

1. How did seismic(earthquake) waves help discover the core?
2. How is the inner core different than the outer core?



Answer Q's in
Unit Packet



Answer ESRT & Review Questions

(In Unit Packet)