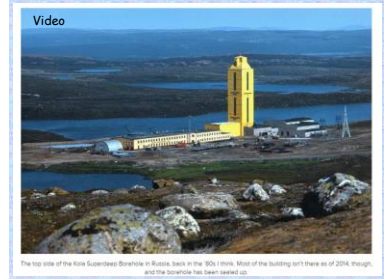


Lesson 14 – Earth's Interior

THE FOLLOWING VIDEO HAS BEEN APPROVED FOR ALL AUDIENCES BY THE EARTH SCIENCE TEACHERS ASSOCIATION OF AMERICA, INC. THE VIDEO HAS BEEN RATED

I	INTELLIGENT
	UNDER 15 REQUIRES TEACHER ASSISTANCE
STRONG EARTH SCIENCE LANGUAGE, DETAILED DIAGRAMS, AND SUPER ANSWERNESS	

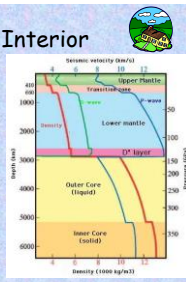
- I can explain how scientists know about the layers of the Earth
- I can name & explain the two types of crust
- I can describe the importance of the asthenosphere
- I can compare & contrast the inner and outer core
- I can use the Inferred Properties of Earth's Interior Chart



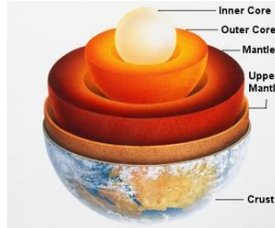
Earth's Interior

- Scientists study through

SEISMIC (EARTHQUAKE) WAVES



Exploring Earth's Interior



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Zones of the EARTH

CRUST

- **OUTER** most part of Earth
- Mostly **SOLID ROCK**



Egg Shell similar to crust because it is the outer most layer and cracks easily

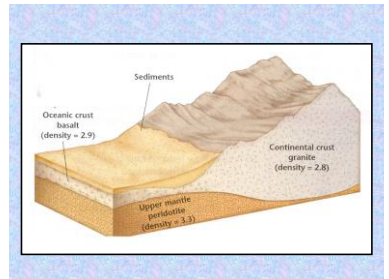
Two TYPES of Crust

Continental Crust

- Continents & Larger islands
- Thickest Ranges (deeper in Mantle)
- Largely of **Granite** (LOW in DENSITY)

Oceanic Crust

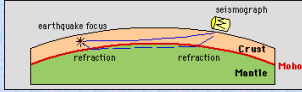

- Crust beneath the ocean
- Composed of **basalt rock** (HIGH in DENSITY)



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MANTLE


- Below crust is the **THICKEST** zone
- Contains 80% of Earth's volume
- Separated by the crust by the **MOHO**

TWO Sections of Mantle

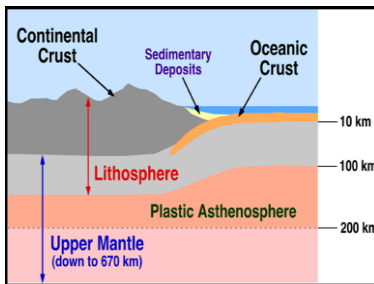
LITHOSPHERE

- Whole crust & the upper portion of mantle
- Divided into **PLATES**



ASTHENOSPHERE

- Below the Lithosphere
- Seismic waves **DECREASE** in VELOCITY
- Portion of upper mantle which is **PARTLY MOLTEN**



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Two Cores

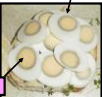
OUTER CORE

- Has a **LIQUID** nature
- S-waves **DONT PASS** through it
- Partly creates the Earth's Magnetic Field

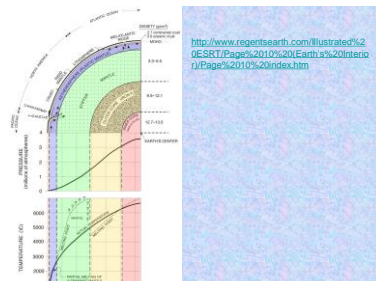
INNER CORE

- Extends down to Earth's center
- Believed to be a **SOLID**

****BOTH are composed of IRON & NICKEL based on studies of meteorites****



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