

HW Text p. 442-447 #1-5. AA Projects Due Jan. 16 AA

Plate Tectonics

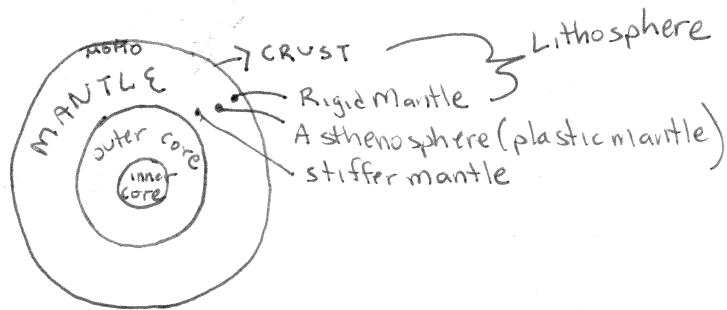
• Layers of the Earth.

Aim: How do doctors see your bones?

X-rays = A form of energy that travels in waves.

Geologists use energy from earthquakes to see
INSIDE the earth: Seismic Waves (P+S waves).

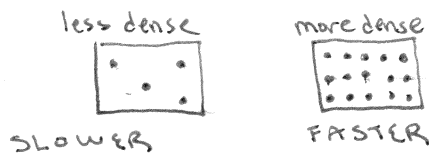
ESRT p. 10



How do geologists know the Earth's interior is divided into different layers?

Speed of seismic waves (P+S) changes in different layers.

* As density \uparrow speed \uparrow = more dense layer.



Where do earthquakes occur? ESRT p. 5

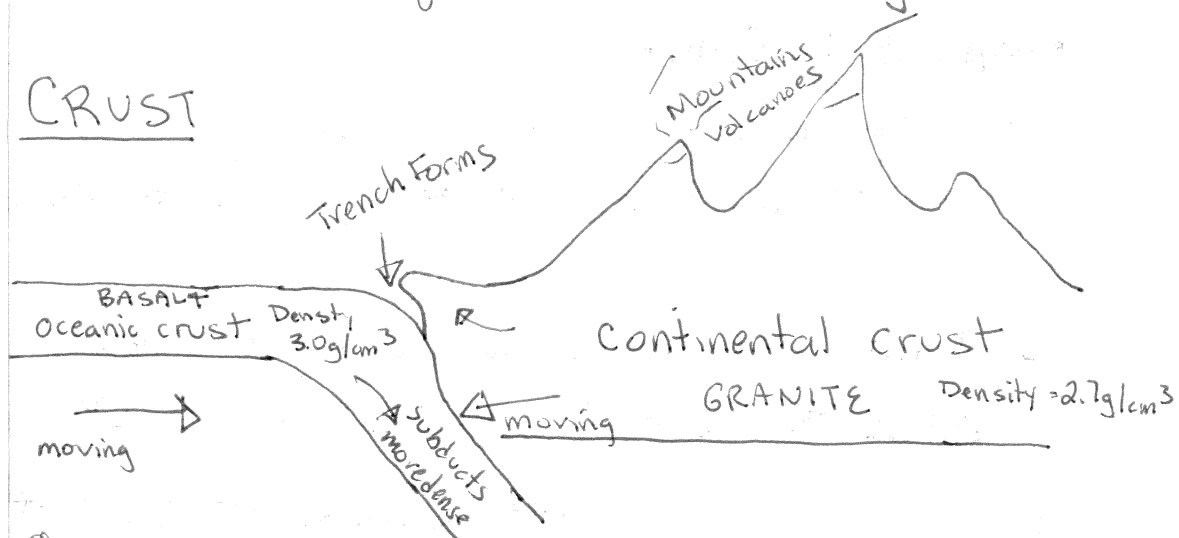
Along plate boundaries. California, Japan, Peru, Chile.

USGS.gov/earthquakes/map earthquakes occur all the time

one
journey to the
center of the Earth.

Majority of earthquakes occur along the Pacific Plate. This is called the 'Ring of Fire' due to lots of earthquakes + volcanic activity.

CRUST



Ocean collides with continent. Oceanic crust is MORE DENSE so it goes underneath + SUBDUCTS. Forms mountains, volcanoes, islands.

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Aleutian Trench: Pacific Plate (oceanic/basalt) collides with North American Plate (continental)
Pacific Plate Subducts under No American Plate to form Trenches, Mountains, Volcanoes, Islands

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Earth's Inner Core is similar to meteorites in composition + density. Iron + Nickel