



The Theory

In 1910 *Alfred Wegener* begins to wonder....

What's the relationship?

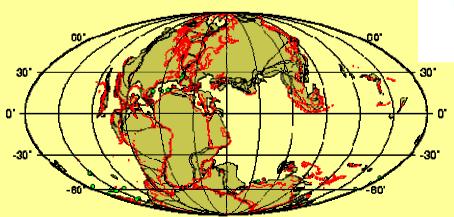
Perhaps all these pieces used to be connected.

Continental drift=slow movement over Earth's surface

It all started 300 million years ago......

Supercontinent

Pangea - (Greek) all lands





⟨
→Tens of Millions of years!

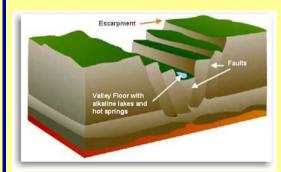
150 My Reconstruction

B **Transform Divergent** Convergent plates are plates are moving apart plates are coming together slipping past new crust is each other created •crust is returning to the mantle •crust is not Magma is created or coming to the destroyed surface

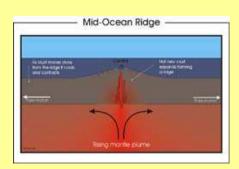
A Divergent

Continental crust

⇒ rift valley

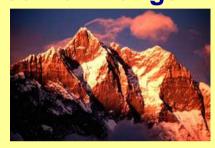


Oceanic crust ⇒ midocean ridge

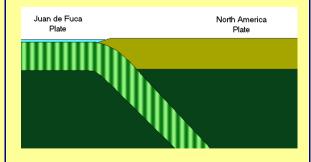


B Convergent

2 continental plates ⇒ mountain range



2 oceanic plates or oceanic + continental ⇒ subduction

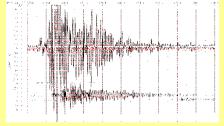


Transform

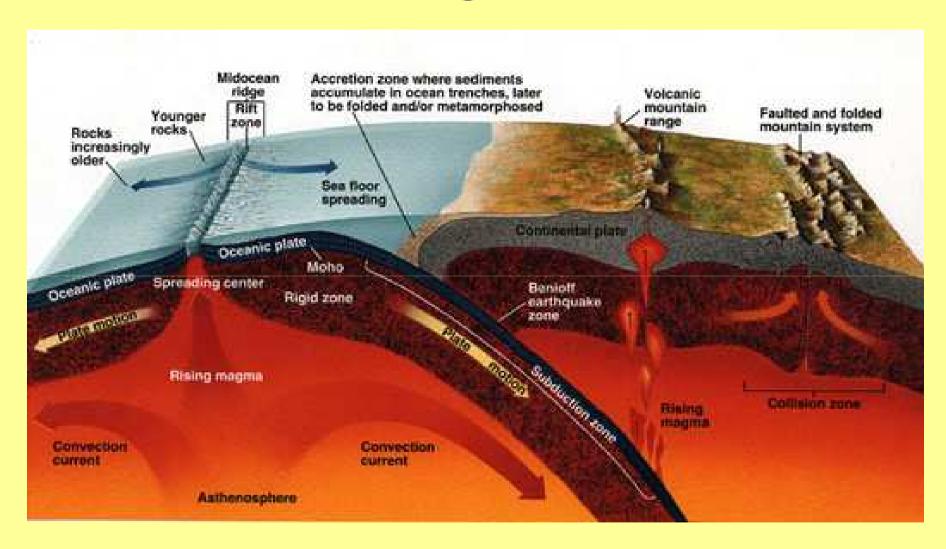
Plates move against each other

Stress builds up

Stress is released ⇒ *earthquake*



The Big Picture



Homework-Vocabulary

convergent boundary divergent boundary transform boundary subduction mid-ocean ridge continental crust oceanic crust mountain range earthquake