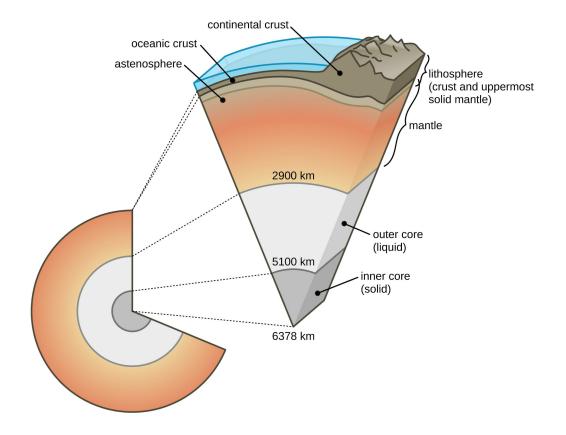
The Rock Cycle

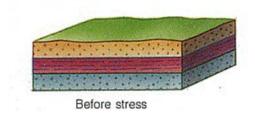
Week 7

Science Explorers

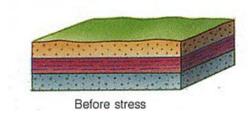


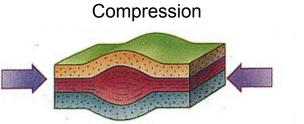
What is the earth made of?

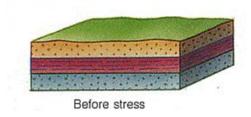


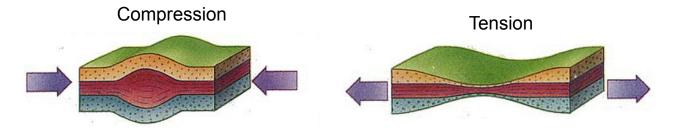


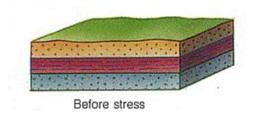
Think back to your plate tectonic lesson!

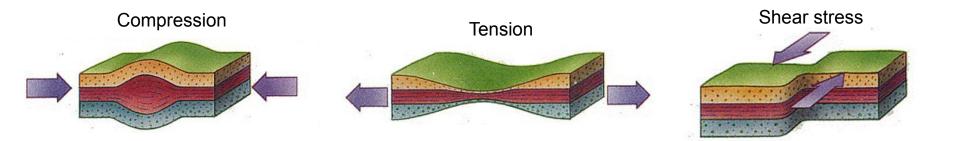






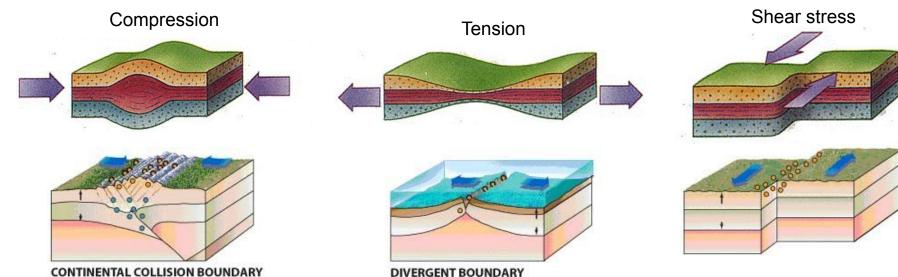








Before stress



TRANSFORM FAULT BOUNDARY

Examples of results of this stress: folding





Examples of results of this stress: faults





San Andreas fault Speed: 30mm to 50mm per year



What causes rocks do undergo this stress?



Volcanic activity

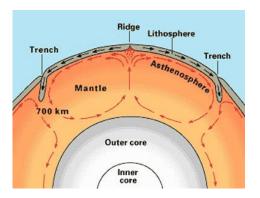


Plate Tectonics

Stress on the rocks on the surface



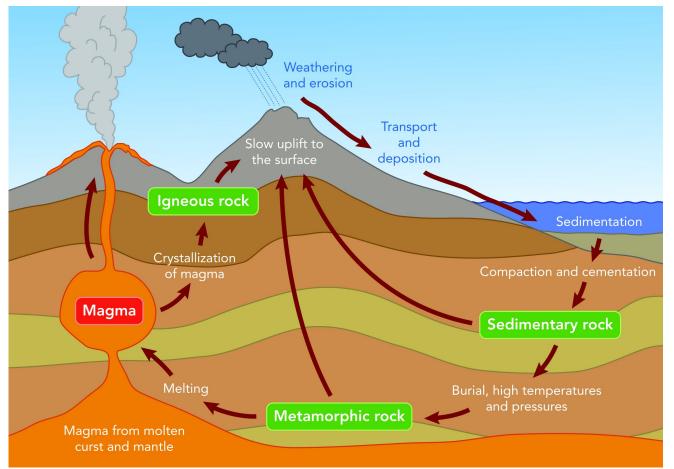
Weathering and erosion leads to really cool structures







The Rock Cycle



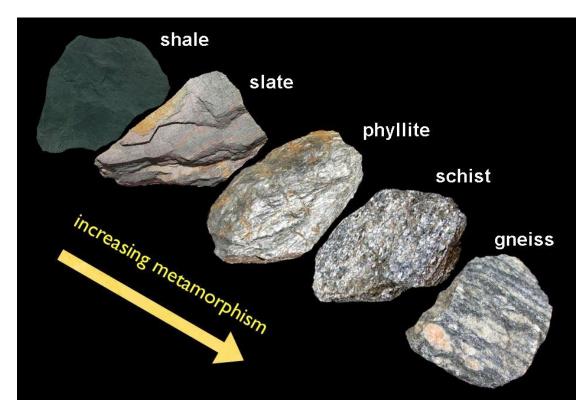
Sedimentary Rocks

- Formed from compaction of sediments, or minerals dissolved in water.
- It can contain fossils
- It shows particles of rocks and minerals joined together
- It can have sheets of horizontal layers



Metamorphous Rocks

- Form through pressure and heat from existing rocks.
- The more pressure it experiences, the more banding occurs.



Igneous Rocks

- Formed from solidification of molten rock
- It can cool inside the earth or on the surface of the earth
- It has glassy texture
- It can also have gas pockets



Activity

- 1. Soapy Stress!
- 2. Simulate your own rock cycle with Starburst!