

Do Now:

PAGE #1: Layers of the Earth

Broken into 3 sections

Name of Layer	Composition	Temperature/Density

Homework:

PAGE #2: The Rock Cycle

We all know the three types of rocks:

1. _____
2. _____
3. _____

But how are they formed?

SEDIMENTARY ROCKS ARE FORMED BY _____

METAMORPHIC ROCKS ARE FORMED BY _____

IGNEOUS ROCKS ARE FORMED BY _____

Let's change those rocks!

What should I do if I want to change an igneous rock to a metamorphic rock?

What should I do if I want to change a metamorphic rock to a sedimentary rock?

What should I do if I want to change a sedimentary rock to an igneous rock?

Examples:

Igneous Example: _____

Metamorphic Example: _____

Sedimentary Example: _____

Do Now:

PAGE #3: Fossils Show Change

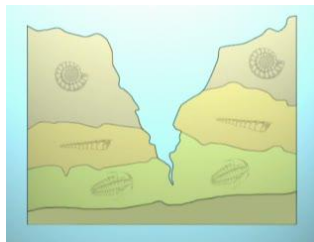
Fossils are really old. Because they are so old, we can use them to get clues about how things once were on Earth a long time ago. Here's how scientists have used them:

Changes in the sea level

Scientists know if an area used to have water if they find fossils of _____ in that area.

Superposition

The law of superposition tells us that when you look at sedimentary rocks, the older ones are always at the _____ and the younger ones are always at the _____. This is true for fossils too.



Circle the oldest fossils and underline the newest fossils

Changes in the land

There's a dinosaur called a Mesosaurus that can be found in Africa and South America. Since it was so small, we know it couldn't _____ that far. Thus, the fossils tell us that the land used to be _____ piece.



Listen, man. I'm good at a lot of things, but swimming across an ocean isn't one of them.

Home work:

PAGE #4: Weathering, Erosion, Deposition

Weathering means that rocks are _____.

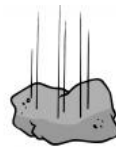
Breaking down rocks with chemicals is _____ weathering.

Breaking down rocks with force (like a hammer) is _____ weathering.



Erosion means that rocks are _____.

What are the four things that move rocks (erosion)?

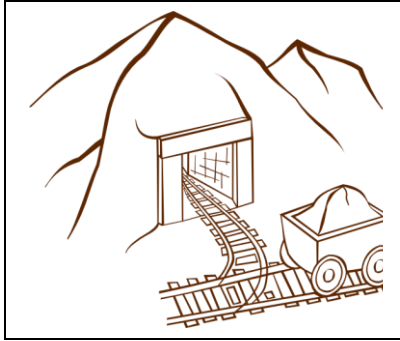


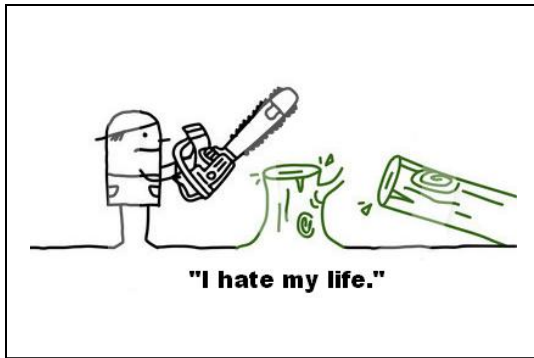
Deposition means that rocks are _____.

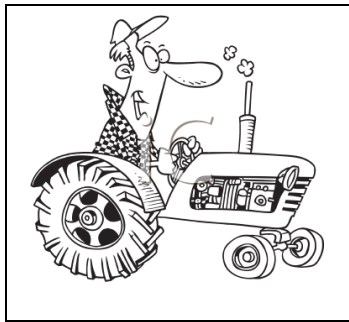
Do Now:

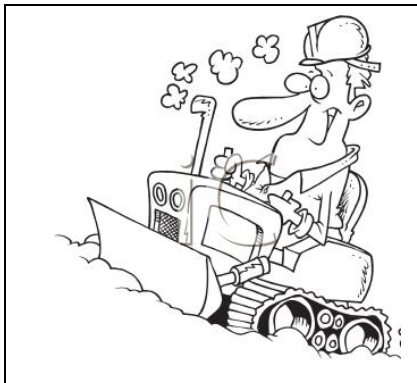
PAGE #5: Humans Messing Up Stuff

As awesome as humans are, we mess up a lot of stuff on Earth. There are four things we do that can create erosion (bad) and natural disasters (like drought or dust storms).









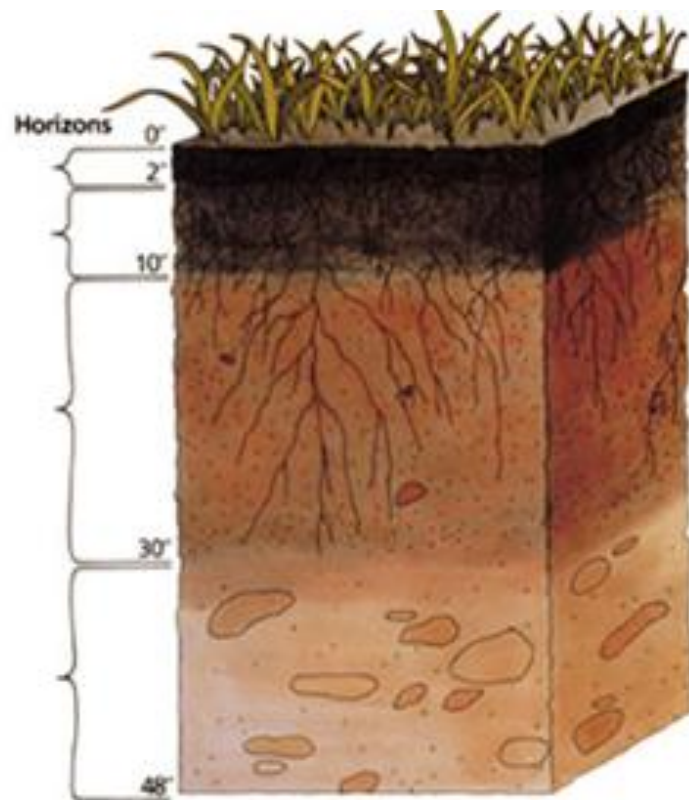
Homework:

PAGE #6: Soil Stuff

What is soil made out of?

Basically, tiny rocks and dead stuff.

Layers of Soil:



Do Now:

PAGE #7: The Plates

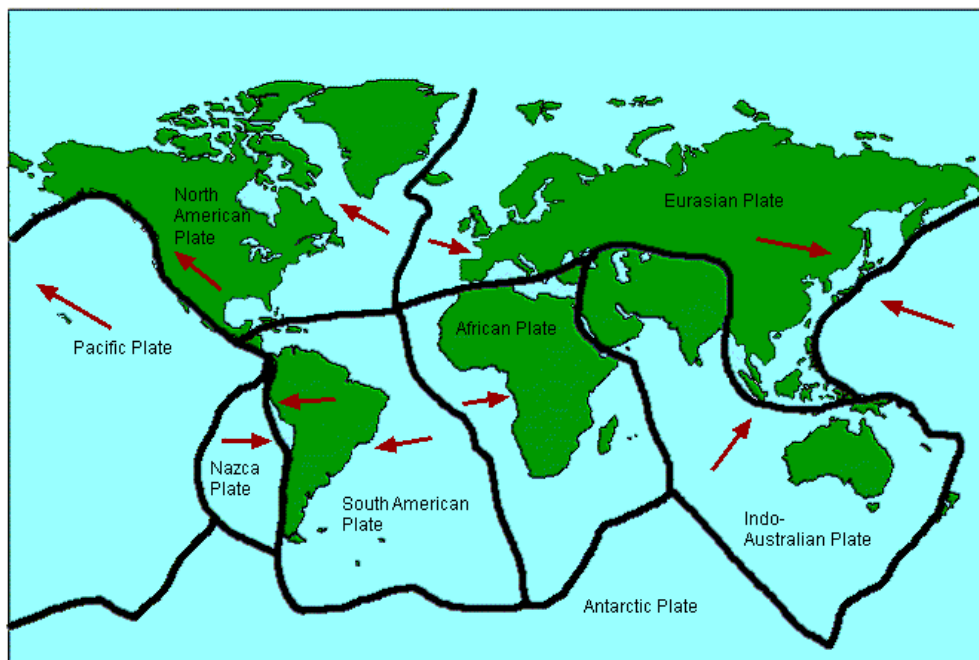
Right now, you are standing on the crust. The crust is broken up into pieces called lithospheric plates.

We call the places where plates touch plate boundaries. Let's look at the plate boundaries.

Boundary Type	Stress Type	Fault Type	Can Make.....	Picture

The plates move about _____ per year.

SOOOOOOO, after a few hundred years, the plates could move _____.



Homework:

PAGE #8: Water on Earth

Water is really good. Did you know that humans are the only mammals that can't taste water? It's true. We can only taste when something is WRONG with water. Crazy. Anyway.....

_____ % of the Earth is water

_____ % of the Earth is land



Now, let's break down just the water that's on Earth.

97% of all of our water is _____

23% of all of our water is stored in _____

Less than 1% of all of our water is _____

And where you would expect to have a lot, we have a little! _____ and _____ hold very little water!