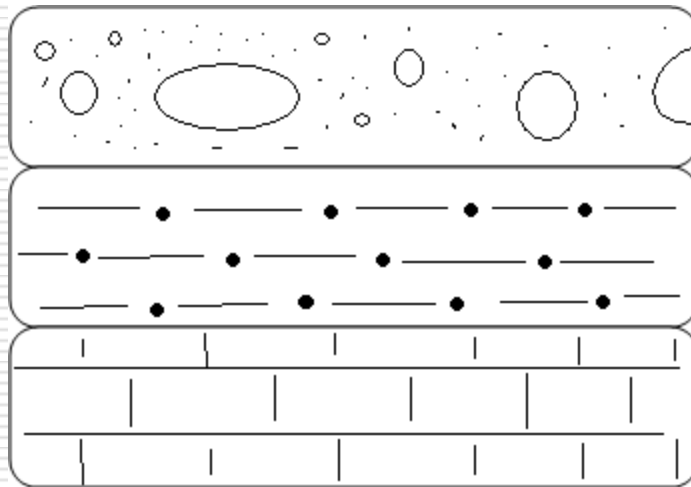
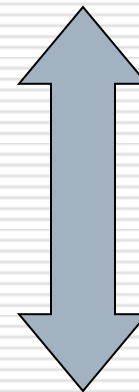


75: Superposition

- In layers of Sedimentary Rock the **Older layers are below the Younger**
- "RELATIVE DATING"



YOUNGER



OLDER

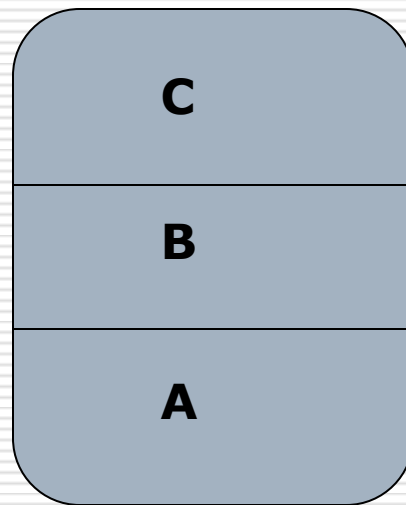
#76: INDEX FOSSIL

- ❑ A fossil of a plant or animal that lived all over Earth for a short period of time.
- ❑ Makes a good time marker / tells you the age or geologic period a rock formed
- ❑ EX: Dinosaurs lived during the Mesozoic era (120-65 MYA, million years ago) a dino fossil indicates that the rock formed in that time

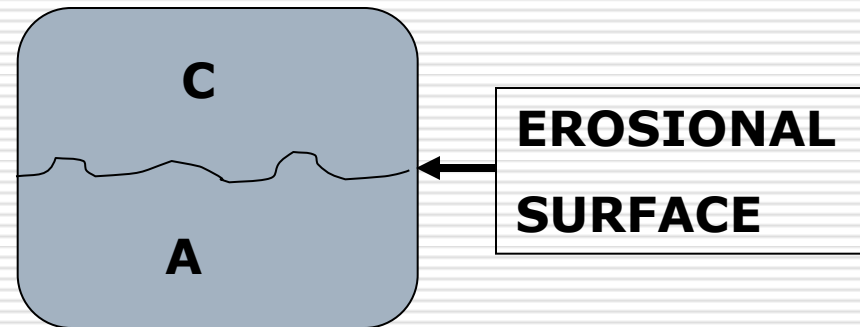
#77: UNCONFORMITY

- When layers of rock are missing / a “gap” in time / these **layers are eroded away**

- Should Be:



Looks Like:



#78: Geologic Time Scale

- Earth's History / broken down into
 - Eons
 - Eras
 - Periods
 - Epochs

Based on the Life that existed / **FOSSIL RECORD**

Each ERA ends with a Major *Mass* EXTINCTION

#79: Evolution

- The change in life over time
-

#80: Variation

- Differences from one individual to another within a population of a species.
-

#81: Adaptation

- ❑ **Variation / Trait** that helps the individual survive more in it's environment
 - ❑ Ex; Snowshoe Hair's large Paws helped it run faster across snow, Giraffe's Neck allowed it to reach higher leaves
-

#82: Natural Selection

- Process by which **EVOLUTION** occurs

 - In nature, individual organisms within a species that have, **ADAPTATIONS**, traits that help them to survive will-
 - **Live longer**
 - **Reproduce more**
 - **Pass on their Genes/ DNA/ Traits**
-

#82: Mutation

- ❑ **DNA** of an organism is **changed**
 - ❑ usually bad, sometimes can create an adaptation
-

#83: HOMOLOGOUS Structure

- ❑ Evidence of EVOLUTION
 - ❑ Suggests a **COMMON ANCESTOR**
 - ❑ Same Structure / Different Function
 - ❑ EX: Hand of a Human and Flipper of a Dolphin have the same bones, but different functions
-

#84: Vestigial Structure

- ❑ A body part that is slowly DISAPPEARING over millions of years
 - ❑ As the species evolved, it no longer has a use for it
 - ❑ EX:
 - Human appendix and tailbone
 - Leg bones of snakes
 - Eyes of a cavefish
-

