Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_ Binder \_\_\_\_\_\_

**Notes (FIB): Relative Dating**

**Principle of Uniformitarianism** – The F-FORCES and P-PROCESSES that we currently see shaping our planet also operated in the P-PAST

**How we measure time**  - R-RELATIVE Time: puts events into sequence, but does not date A-ACTUAL time of occurrence.

-A-ABSOLUTE Time; identifies the A-ACTUAL date of an event. It can tell the S-SPEED at which events are happening.

**Relative Dating**  -Finding the A-AGE of a rock or F-FOSSIL based on its P-POSITION relative to other R-ROCKS

**Correlation** -Principles of Relative D-DATING allow us to know an approximate A-AGE

**Principle of Original Horizontality** -S-SEDIMENTS accumulates in H-HORIZONTAL layers.

-If they lie at an A-ANGLE or are F-FOLDED we can infer that they were folded after they F-FORMED

**Law of Superposition**  -In a sequence of undisturbed R-ROCKS, the O-OLDEST rocks will be at the B-BOTTOM of the sequence, and the Y-YOUNGEST at the T-TOP

**Law of Crosscutting Relationships** -Igneous rock is Y-YOUNGER than the rock it has intruded or C-CUT A-ACROSS

-Intrusion – when a N-NEW rock pushes into O-OLDER rock layers.

**Unconformity** -A B-BREAK in the rock R-RECORD

-It shows where a part of the rock R-RECORD is M-MISSING due to E-EROSION

**Law of Included Fragments** -P-PIECES of rock in a rock L-LAYER are O-OLDER than the layer itself.

**Fault**  -A C-CRACK through a section of R-ROCK