**CLASS COPY – Do NOT remove from the classroom!**

**Relative Dating Lab**

**Objective**: Apply the Stratigraphic Principles, principles of relative dating, to determine the sequence of geologic events that formed the block diagram, explain what occurred for each figure, and justify the placement using the stratigraphic principles.

**Activity Directions:**

1. Carefully cut out figures 1 -11, include words that go along with each figure
2. With your partner, discuss, and arrange the figures in order – from what is came first, is the oldest, to the most current figure. Apply the principles of relative dating, the stratigraphic principles, to JUSTIFY the figure placement
3. Get a piece of paper and attach the figures in the proper order, first formed to the youngest (#1-#11), providing space beneath each figure to write your justifications. (Use the front and back of the paper so there is writing space).
4. Below each figure, write an explanation of what is happening in the figure and why you placed it in the order you did
	1. brief summary of what is happening in the figure
	2. proper scientific terms are used, for example, stratigraphic principle terms, weathering and erosion terms …

Rubric for Relative Time Lab

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| Exemplary | Meets all proficient criteria **PLUS*** 10 to 11 of the figures are placed in the correct order
* At least 2 of the stratigraphic principles are used to explain and/or justify the position of the figures. –OR- Each figure is accompanied with an explanation of what events happened to the Earth to create the rock record.
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| Proficient | * All 11 figures are placed on the paper
* Figures are placed in order of first formed to the most current
* There is a description, written in complete sentences, of each figure with reasoning for placing it in that position
* Scientific terminology is used properly for each of the 11 figures; a minimum of 1 stratigraphic principle per figure
* 9 of the 11 figures are placed in the correct order
* Explanations are written in proper sentence format.
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| In-Progress | Meets 4-5 of the proficient criteria**More Work is Needed - Make corrections and resubmit for a re-grade** |
| Beginning | Meets fewer than 4 of the proficient criteria**More Work is Needed - Make corrections and resubmit for a re-grade** |