Water Table Lab

**Objective:**

Students will create a model representation of how the Grand Canyon formed.

**Procedure:**

1. Get 1 bag full of the “earth surface” for your team as directed by your teacher.
2. Put the bag of your “surface” into the water table pan. Pack it so that there is more on one end of the pan than the other (flat like a plateau).
3. Obtain glassware to pour water on the plateau continuously in only the area that has higher elevation.
4. Observe.

**Data:**

Sketch a BEFORE and AFTER picture (to the best of your ability) of the Earth’s surface in the water table. Describe what can be seen in each.

**Questions:**

1. How is the water table like a mini representation of the Grand Canyon?
2. How do geologists believe the Grand Canyon formed?
3. What did the continuous movement of water do to the Earth Surface in the water table?
4. Explain how deposition occurred in the water table.

Mountain Range Erosion Lab

**Objective:**

Students will create a model representation erosion on a mountain range.

**Procedure:**

1. Get 1 piece of white paper for yourself.
2. Crumple the piece of paper into a ball and then unfold it.
3. Trace the ridges in the paper with a marker, but be careful to not press down.
4. Have the teacher spray the paper with water.
5. Observe

**Data:**

Sketch a picture (to the best of your ability) of the paper after tracing the ridges and draw another picture after the paper was sprayed with water. Describe what can be seen in each.

**Questions:**

1. What do the ridges on the paper represent?
2. What does the water in the water bottle represent?
3. What does the movement of marker color on the paper represent?
4. What are two other ways erosion can take place?