Stream Table Investigation

Investigation Question: _____

_____

Individual Stream Table Setup:

Be sure your stream table is set up in the manner your teacher has instructed. If you have any questions, ask before starting this investigation.

Step 1: Add pebbles, rocks, grass, sand and soil to the upstream part of your stream table.

Step 2: Position the stream bed so the drain hole hangs over the edge of the table. Place a bucket under the hole to catch the water.

Step 3: Place a book under the upstream part of your stream table (if not working on rate of erosion)

Investigation 1

Record your observation

Trial 1: Hard Short Puff of Air	Trial 2: Light continuous blow	Trial 3: Strong continuous blow

Investigation 2:

Part 1: Replace all materials to the upstream end of your stream table. Get an ice cube from your teacher. In this model, the ice cube represents a glacier. Glaciers are large masses of ice that can move slowly over an area. In some areas, glaciers grow larger or smaller based on seasonal temperature changes. Place the ice cube at the upstream end of your stream table. Gently push the ice cube all the way down the stream table.

Record your observation below

What did you notice about the way the materials move in this trial?

Part 2: Use the plastic spray bottle. Squeeze the water bottle over the stream table once every five seconds for one minute.

Record your observation below.

What could the water from the spray bottle represent in the Grand Canyon?

What did you notice about the way the materials move in this trial?

Part 3: Get a plastic cup with a hole in the bottom from your teacher. Have one team member hold the cup over the upstream end of the stream table, plugging the hole with their finger while another member fills the cup with water. After the cup is filled, remove the plug and let the water flow out of the cup.

Record your observations below.

What could the water from the plastic cup represent in the Grand Canyon?

What did you notice about the way the materials move in this trial?

How is this similar or different to what you observed in Part 2?

Investigation 3

What do you notice about the weathered material in the Grand Canyon photographs your teacher provided?

Record your observation in the table below.

Image 1	Image 2	Image 3

What may have caused the events that occured to leave the rocks in their positions?

Investigation Conclusion:

What similarities do you notice in all three investigations?