

Changing Earth Lab Note Expectations and Samples

Changing Earth Labs

The purpose of our landform labs was to understand how they form in nature, and what agents and process create them.

The materials we selected are as follows:

Sand dune:

- sand
- straws to create → wind
- water → rain
- ice → glacier
- pan → land

Canyon:

- sand, pebbles, soil, dry dirt, clay
- straws → wind
- water → river
- ice → Glacier
- pan → land

Delta: same as above

We selected those materials because they are what these landforms consist of in nature.

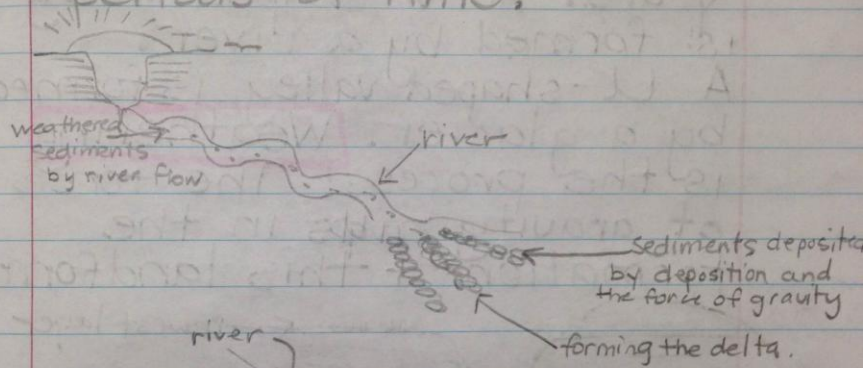
We researched each landform and decided that we would apply changes that actually create landforms first. For example, we applied water first to create the delta since water is the agent that helps erode sediments that are eventually deposited. Then we applied the change of ice, and finally wind.

When we stated our predictions or hypotheses our outcomes proved them to be correct.

Conclusions drawn from labs

A delta is formed by the force of a flowing river that weathers or breaks rocks, eroding these sediments down

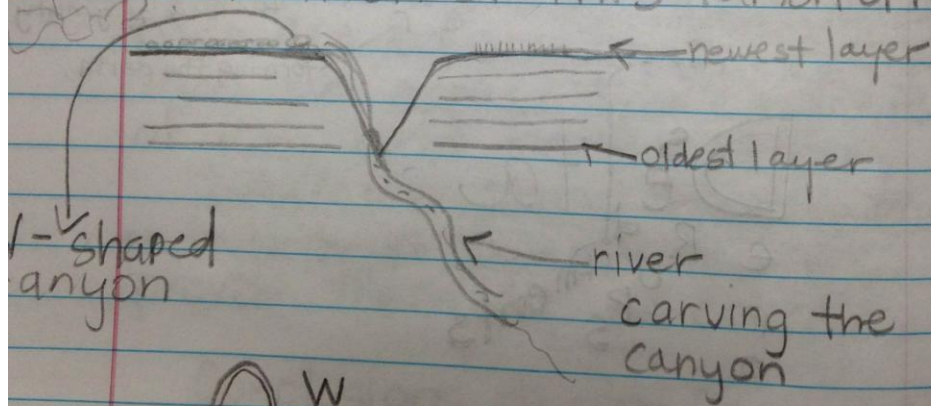
the river and **depositing** them at the mouth that leads to the ocean. These sediments build up and develop the delta landform over long periods of time.



river }
Delta
e R o P s
o s i t i o n
P o s i t i o n s

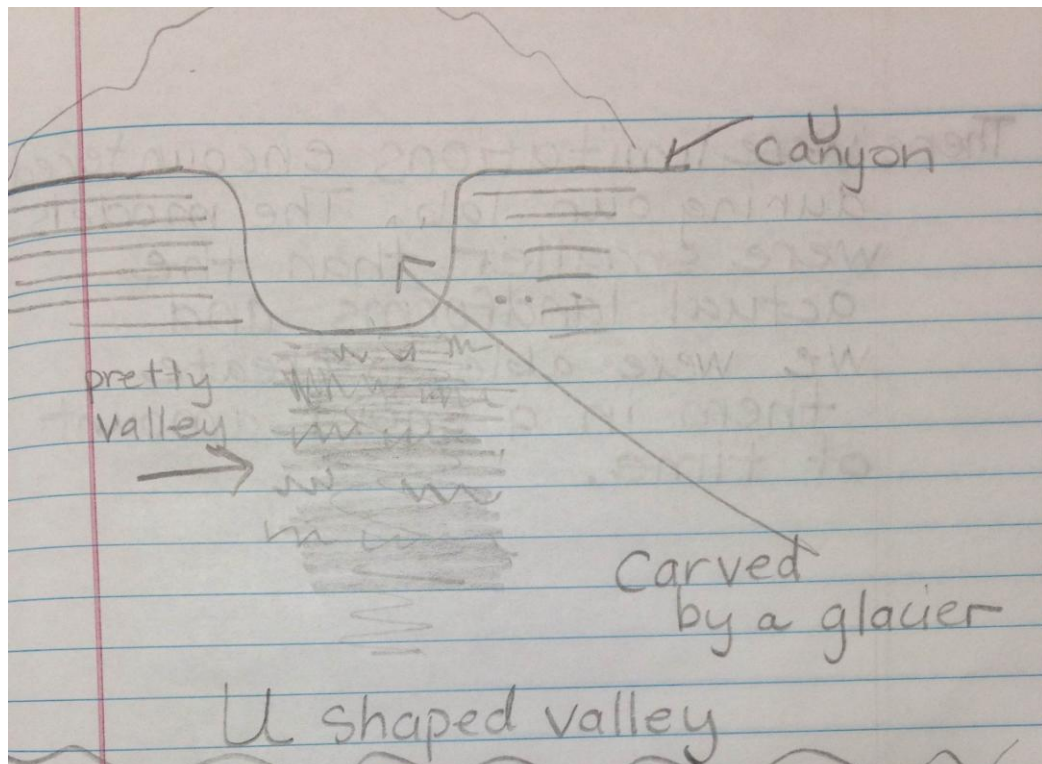
Canyons are formed by the force of water weathering or breaking rock as it gushes down stream. This process happens over millions of years. A V-shaped valley is formed by a river.

A U-shaped valley is formed by a glacier. Weathering is the process! The force of gravity aids in the formation of this landform.

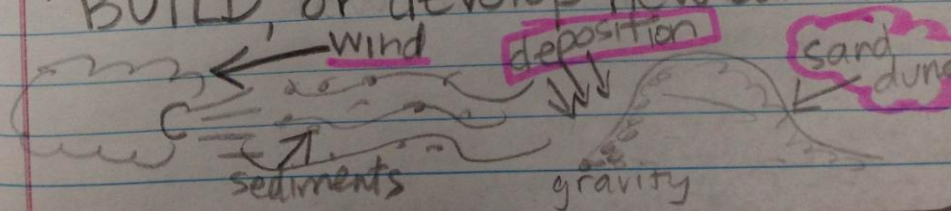


W
e
Canyon
a + h e r i n g
r v e s

River



A sand dune is formed when the force of wind weathers (breaks) and erodes, or carries sediments and then DEPOSITS them by the force of gravity (because gravity pulls $\downarrow\downarrow$). Over long periods of time, these sediments BUILD, or develop new sand dunes.



b. This p
Diagram Number 4
(units) 1

There were limitations encountered during our lab. The models were smaller than the actual landforms, and we were able to create them in a short amount of time.