Rock Cycle Weathering and Deposition Experiments

Weathering:

Investigating how chemicals (acid and water) can cause weathering in rocks.

Materials:

2 pieces of sandstone 2 pieces of granite 10mL vinegar 10mL water 4 test tubes Test tube rack Sharpie for labelling

Method:

- Label test tubes with group name and:
 - 1. Sandstone and water
 - 2. Sandstone and vinegar
 - 3. Granite and water
 - 4. Granite and vinegar
- Fill the 4 test tubes with the correct substances,
- Place in the test tube rack and leave until your next class.

Deposition:

Investigating how sediments settle in water.

Materials: 1 cup of rocks/dirt mixture Beaker filled up to 3 cm from the top with water

Method:

- Label the beaker with a group name. Fill the beaker 3/4 up with water.
- Pour in a cup full of rock/dirt mixture and let it settle to the bottom.
- DO NOT move the beaker while it is settling!
- Observe what happens.
- Leave it undisturbed until your next class.

Name:_____

Other Group

members:_

Aim: (What do you want to test?) Weathering:

Deposition:

Hypothesis: (What do you predict will happen for each experiment?) **Weathering:**

Deposition:

Variables: Describe your variables Weathering

Independent variable (what you are changing)

Dependent variable (what you are measuring)

Controlled variables (all the things you are keeping the same)

Results:

Weathering

Test tube	Observations

Deposition

Take a photo of your sediment layers with your Chromebook.

Describe what you observe:

Conclusion: Weathering: What happened to the different rocks in acid?

Use this observation to explain chemical weathering of rocks:

Deposition: Describe the location and layering of your sediment.

Did the Weathering results support your hypothesis or not? Why?

How could you change or improve your experiments?