

Erosion Stations Activity

In the erosion stations the following activities are used (one station for each activity) as an all-class activity. Lab sheets for each station are attached at the end of the lesson.

Station 1: Demonstrates beach erosion. Using a pan, make a sand pile at one end and pour water at the other end. Slide the pan back and forth to create wave movement. Record observations.

Station 2: Freeze ice cubes with sand in them and then move the sand ice cubes over different surfaces, sand, water, dirt, etc. Record observations.

Station 3: Place sand in a small bowl and the use a hair dryer to move the sand. Note if different speeds are possible. Record observations.

Station 4: Place a pile of ice cubes on a mound of dirt. Observe and record what happens as it melts.

Station 1 – Beach Erosion

Name _____

Question: *What effects do waves have on the beach?*

Hypothesis: _____

 _____.

Procedure: Using a pan, make a sand pile at one end and pour water at the other end. Slide the pan back and forth to create wave movement. Record observations.

Data/Results:

Observations

Conclusion: _____

 _____.

Station 2 – Glacial Erosion

Name _____

Question: *What effects does frozen water with sand have on different surfaces?*

Hypothesis: _____

_____.

Procedure: Freeze ice cubes with sand in them and then move the sand ice cubes over different surfaces, sand, water, dirt, etc. Record observations.

Data/Results:

Observations

Conclusion: _____

_____.

Station 3 – Wind Erosion and Windblown Deposits

Name _____

Question: *What effect does wind have on sand?*

Hypothesis: _____

_____.

Procedure: Place sand in a small bowl and the use a hair dryer to move the sand. Note if different speeds are possible. Record observations.

Data/Results:

Observations

Conclusion: _____

_____.

Station 4 – Water Weight Erosion

Name _____

Question: *What effect does the melting water have on dirt?*

Hypothesis: _____

_____.

Procedure: Place a pile of ice cubes on a mound of dirt. Observe and record what happens as it melts.

Data/Results:

Observations

Conclusion: _____

_____.