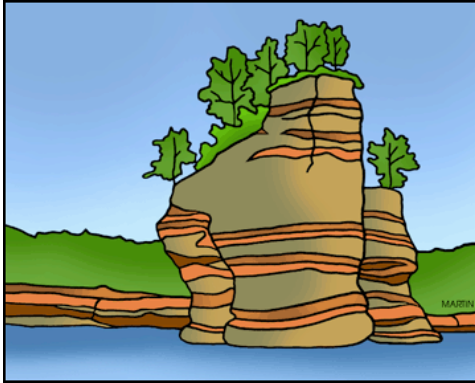


# Water Erosion Lab student worksheet



Question: What can humans do to reduce the erosion effects of water?

Hypothesis: I think that \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Experiment Procedure:

**Control: Water flowing across the bare, sloped land.** Pour a pile of dry potting soil in one end of a pan. Use a measuring cup or graduated cylinder to pour one-cup of water slowly over the soil.

Observation: When we poured one-cup of water over the soil, \_\_\_\_\_

\_\_\_\_\_

Draw it:



**Variable: Water flowing across bare, sloped land that has ditches and ridges.**

Pour a pile of dry potting soil in one end of a pan. Using your finger or a craft stick, create ditches and ridges in the soil going horizontally across the slope. Use a measuring cup or graduated cylinder to pour one-cup of water slowly over the soil.

Observation: When we poured one-cup of water over the soil with ridges, \_\_\_\_\_

\_\_\_\_\_

Draw it:



# Water Erosion Lab student worksheet

**Variable: Water flowing across the bare, sloped land that has terraces (stair-step).**

Pour a pile of dry potting soil in one end of a pan. Using your hands or a craft stick, create 3 wide “stair step” level areas across the width of the slope. Use a measuring cup or graduated cylinder to pour one-cup of water slowly over the soil.

Observation: When we poured one-cup of water over the soil with terraces, \_\_\_\_\_

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Draw it:

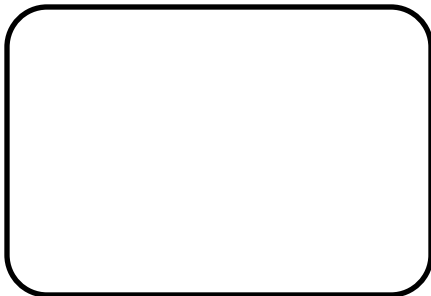


**Variable: Water flowing across the sloped land that has ground cover.** Pour a pile of dry potting soil in one end of a pan. Cover the slope with small rocks (or alternately, cover it with moss or grow grass about 3 cm tall in it ahead of time). Use a measuring cup or graduated cylinder to pour one-cup of water slowly over the soil.

Observation: When we poured one-cup of water over the soil with ground cover, \_\_\_\_\_

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Draw it:



Conclusion: The most effective way to reduce soil erosion from water is \_\_\_\_\_

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