Wind Erosion Lab

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

Hypothesis: I think that _____

_____

Experiment Procedure:

Pour a pile of flour in one end of a pan. This will represent the sand/soil.

Variable: Wind Speed. Use a straw to blow across the flour gently. Use a straw to blow across the flour more forcefully. Observe what happens.

Observation: When we blew gently, _____

When we blew forcefully, _____

Draw it:

Blowing gently

Blowing forcefully

Variable: contoured ridges in the flour (soil). Pile all of the flour at one end of the pan. Using your finger or a craft stick, create ditches and ridges in the flour. Then blow across the flour with your straw again.

Observations: When we blew across the ridges, _____

Draw it:

Wind Erosion Lab

Variable: surface cover on the flour (soil). Pile all of the flour at one end of the pan. Place overlapping pieces of paper on the surface of the flour to represent plants growing in the soil. Then blow across the flour with your straw again.

Observations: When we blew across the covered flour, _____

_____

Draw it:

Variable: wind break in front of the flour (soil). Pile all of the flour at one end of the pan. Place cardboard "trees" upright in the flour on the side that you will blow from. Then blow across the flour with your straw again.

Observations: When we blew across the flour with a wind break, _____

_____

Draw it:

Conclusions: The most effective way to reduce soil erosion by wind is _____

_____