CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY

Name(s)
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Project Number
J0607

Project Title
Shapes of Erosion

Abstract

Objectives/Goals
The purpose of this experiment is to find out "What is the effect of different shapes on erosion?"

Methods/Materials
The experiment was conducted with four troughs made out of a plastic type material set onto a wooden slab set at an angle. In each trough (except the control) there were three barriers of different shapes held in place by glue. Each trough was filled with sand. To conduct the experiment each trough, including the control, had one gallon of water from a bucket poured into it. The experiment was tested six times within a 24 hour period.

Results
The control trough was found to be the worst at stopping the sand from pouring out with the water and the 1.5" barrier was found to be the second worst. The trough with the straight barrier was found to be the second best at stopping the sand eroding and the three-inch "zigzag" barrier was found to be the best at stopping the sand from eroding.

Conclusions/Discussion
The results of the experiment supported the hypothesis but not significantly enough.

Summary Statement
Trying to understand how different shapes of barriers can prevent or lessen erosion.

Help Received
Father helped with construction of model, Ms. Thornton (Science Teacher) helped with board layout