CALIFORNIA STATE SCIENCE FAIR
2012 PROJECT SUMMARY

Name(s)
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Project Number
J1823

Project Title
Splashdown

Abstract

Objectives/Goals
To Find Out if a metior hit water at what angle would cause the biggist wave.

Methods/Materials
The materials in the experiment used were a 3" by 3' tube, 1 lacrosse ball, 1 plastic container, sand, camera tripod, clamp, protractor and water.

The methods in this experiment were:

1: Setting the tube to a certain hieght and angle.
2: My dad drops the lacrosse ball and takes the time while I mark the wave length on the sand.
3: We record the data

Results
The results showed that the 90 degree was the shortest wave length. The 45 degree angle created the longest wave.

Conclusions/Discussion
The reason the 90 degree angle was the shortest was because the water compressed under the ball then released losing a lot of speed. The 45 degree angle hit the water pushing the water forward causing a bigger wave.

Summary Statement
I used a lacrosse ball dropped from a specific angle hitting water to represent a meteor hitting water making a large wave/tsunami.

Help Received
Dad & Brother assisted with ball drop & timing. My Dad also assisted me with MS Excel spreadsheet.