CALIFORNIA STATE SCIENCE FAIR
2012 PROJECT SUMMARY

Name(s)
Jessica K. Dell'Acqua

Project Number
J0108

Project Title
The Effect of Increasing a Hole's Diameter on a Flying Disc

Abstract

Objectives/Goals
My objective was to determine if changing the size of a hole in a flying disc affects the distance it flies. I hypothesized that the larger the circle cut from the center of the disc the farther it would fly.

Methods/Materials
I made nine discs three layers thick of glued poster board. Three discs had a 5 inch hole cut from the center, three discs had a 3 inch hole cut from the center, and three discs had no holes. Each disc was thrown ten times and the distance measured.

Results
The solid discs flew an average of 17.74 feet. The 3 inch hole discs flew an average of 20.11 feet. The 5 inch hole discs flew an average of 22.13 feet.

Conclusions/Discussion
My conclusion is that the hole size in the center of a flying disc does have an effect on flight distance. The disc with the largest hole flew the farthest.

Summary Statement
The effect on flight distance by increasing the diameter of a hole in the center of a flying disc.

Help Received
Parents purchased materials, took pictures to document her doing the experiment.