CALIFORNIA STATE SCIENCE FAIR
2015 PROJECT SUMMARY

Name(s)

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Project Number

35288

Project Title

Peanut Power

Abstract

Objectives/Goals

Our objective was to see if the chemical energy stored in a nut would release enough energy to heat up water in an aluminum can when it is burned.

Methods/Materials

Important materials used in this project were three similar kids of each three nuts(peanuts, brazil nuts, and half pecans), a thermometer, ten aluminum cans with one-fourth cup of water, and a timer or a stop watch.

Results

The brazil nuts heated the water almost 100 degrees warmer than the peanuts, and at least 30 degrees more than the half pecans. The flame also lasted much longer than the others.

Conclusions/Discussion

In conclusion, our hypothesis was correct. The brazil nuts heated the water better than the other types of nuts, just as we predicted. The brazil nuts burned for a longer time because they had more calories, which made them produce more heat than the other kinds of nuts. Our project could possibly lead to other experiments because others could test out different kinds of nuts to compare the results.

Summary Statement

Our project was to see if the chemical energy stored in a nut would relese enough energy to heat up water in an aluminum can.

Help Received

We received help from one of our fathers, Steve Weisiger, who provided us with all of the aluminum cas and single beam balance.