

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name (a)	Dundand Namelana
Name(s)	Project Number
Morgan D. Nagatani	
	22692
Project Title	
Energy Nuts	
	\
Abstract	
Objectives/Goals	
The purpose of this experiment is to discover if various kinds of nuts contain a	ene gy. If the nuts store
energy, how much energy does each type of nut contain? This experiment disc	evers the energy content
within peanuts, walnuts, macadamia nuts, cashews, and honey-roasted almonds Methods/Materials	5.
I tested small amounts (ten each) of salted peanuts, walnuts, magadainia nuts,	sakhews, and honey-roasted
I tested small amounts (ten each) of salted peanuts, walnuts, macadansia nuts, almonds. Each nut on a sewing needle, which is in the cork, is lit and allowed	to burn under the soup can
holding the half-cup of water for 2 minutes. I measured the temperature charge	e of the water andt
calculated the Btu content of each nut.	
Results The provide of any avaignment and have at any law of acid the same at a cid the sa	
The results of my experiment support my hypothesis that peanuts and other nut nuts give our bodies nutrition and energy. One way to measure each out's ener Btu's or British thermal units stored within the nut. The Webster's Lictionary of the store of the store with the result of the store o	gy is to test the amount of
Btu's or British thermal units stored within the nut. The Webster's Dictionary of	lefines the Btu as "The
quantity of heat required to raise the temperature of 1 lb. of water degree Fahrenheit." The nut with the	
quantity of heat required to raise the temperature of 1 lb. of water, degree Fahrenheit." The nut with the highest stored energy is the walnut with an average 16. Btu. Following the walnut is the cashew with an average 13.1 Btu, macadamia nut with an average 10.6 Btu, honey-roasted almond with an average 9t	
average 13.1 Btu, macadamia nut with an average 10.6 Btu, honey-roasted alm	ond with an average 9t
biu, and the salted peanut with an average 8.9000	
Conclusions/Discussion The purpose of my experiment is to find out inputs contain any energy. The te	sting of the nuts I selected
show that nuts do contain energy and can be treasured in Bru or British therma	l units. The experiment's
The purpose of my experiment is to find out it auts contain any energy. The testing of the nuts I selected show that nuts do contain energy and can be heastered in Btu or British thermal units. The experiment's results indicate that of the 5 types of nuts tested, he walnut has the highest amount of stored energy at 16.7 Btu, 13.1 for the cashew, 10.6 Btu for the mac damia nut, 9.2 for the honey-roasted almond, and 8.9 Btu for the salted peanut. Since nuts contain energy, some day we may not only eat them for fun but use	
16.7 Btu, 13.1 for the cashew, 10.6 Btu for the mac damia nut, 9.2 for the honey-roasted almond, and 8.9	
Btu for the salted peanut. Since nuts contain everyy, some day we may not onl	y eat them for fun but use
nuts to fuel cars and power lights.	
Cumana was Cultura and	
Summary Statement	
How much energy do various nuts contain?	
Help Received	
Dad helped with color graphs.	