CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
Rebecca J. Olson	
	22346
Project Title	
Properties of the Pendulum	
Objectives/Goals Abstract	
My objective was to find which variable - weight, length, or amplitude - would	
the period of a pendulum. I believed that weight, length, and amplitude would e on the period.	ach have an equal effect
Methods/Materials	\checkmark
I constructed a pendulum to test different weights, lengths, and amplitudes to se greatest effect on the period of the pendulum. I then texted three different length	which would have the
cm; three different amplitudes, 20?, 45?, and 70?; and three different weights, 1	$-1/4 \text{ oz} \ 2-1/2 \text{ oz} \ \text{and}$
3-3/4 oz. I timed each of these variables 10 times for one period of motion	1, 1 02, 2 1, 2 02, und
Results	
I found that length made the most significant difference in time. Weight and am difference.	iphtude made nulle of no
Conclusions/Discussion	
My hypothesis was not supported. I found that length made the most significant	t difference in time.
Summary Statement	
To determine what affects the period of a pendulum weight, length, or amplit	ude.
Help Received	
Father used power tools to cut pendulum materials to size and helped with the a	ssembly of pendulum.