

CALIFORNIA STATE SCIENCE FAIR 2010 PROJECT SUMMARY

Name(s)	Project Number
Betsy V. Roy	J1915
Project Title	I
The Pendulum Snake	
Objectives/Goals Abstract	
Objective: If I construct a pendulum snake then my model will provide a keeping properties of pendulums, and of wave movement.	visual demonstration of the time
Methods/Materials Materials and Methods: I used hex nuts for my pendulums, because they	were easy to find and have a
fairly consistent weight and a convenient hole in the middle. I used construction layout line because it is strong and was at the hardware store. I originally used a foam core support that had cuts in it like a strange but I made a new one out of wood for more strangth.	
staircase, but I made a new one out of wood, for more strength. Results	
Results: My research shows that yes, there is a visual way to show the time keeping properties of pendulums in a visually pleasing manner using a pendulum snake. From my table, and further research, I	
verified that the frequency of the pendulums = the inverse of the square root of their length. The	
frequency of my experiment is the number of swings in thirty seconds. Conclusions/Discussion	
Conclusion: My hypothesis is correct because by watching the pendulum snake you can see the different speed of the pendulums. I learned from this experiment that it is possible to understand the speed of pendulums by making a pendulum snake. By making a pendulum snake you can show people waves, and gain a deeper understanding of pendulums.	
Summary Statement A visual demonstration of the time-keeping properties of pendulums, showing a mesmerizing snake pattern.	
Help Dessived	
Help Received Father constructed support frame	