

## CALIFORNIA STATE SCIENCE FAIR 2009 PROJECT SUMMARY

Name(s)	Project Number
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	01010
Project Title	
Fun with Fibonacci	
Abstract	
Objectives/Goals	
The objective is to determine whether there is a ratio betwe number intervals.	en the areas under curves with Fibonacci
Methods/Materials	
I used a graphing calculator and a ruler to do my project. I different types of equations- linear, parabolic, x-cubed, and under the curves between the Fibonacci intervals. I also fou numbers for a control group. I used these areas to try to find area, then the second area by the third, and the third by the divided all of the numbers into a ratio.	logarithmic/exponential. I found the areas nd the areas under curves between the Lucas I a ratio. I divided the first area by the second
Results The areas under parabolic curves with intervals of Lucas Na (but not perfectly.) X-cubed graphs and linear equations als the ratio between the areas under parabolic curves. One of t the areas under the curves using Lucas Numbers or Fibonac Conclusions/Discussion There could be a #golden area# for areas under curves.	o had a ratio, which was more consistent than he most interesting things about this was that
Summary Statement	
My project analyzes Fibonacci numbers and the golden ratio.	
Help Received	