



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Shane K. Ferro	Project Number 22849
Project Title Fibonacci Snails	
Abstract Objectives/Goals The objective of this project was to find out if it is more likely to find the Fibonacci Number Spiral in Terrestrial or Marine snails. Methods/Materials I used the Internet to conduct my search (not the greatest idea in the world, but by the time I figured this out, it was too late). I searched for pictures of both terrestrial and marine snails on the Internet, and when I found them I looked to see if their outer shell contained a sloping spiral, because if it did that would be the Fibonacci Number Spiral. Results During my hunt through the deep corners of the Internet I found an amazing 16 snail pictures total (8 marine, 8 terrestrial). I found that only one of the terrestrial snails did not have the sequence (the Two-toothed door snail), and two of marine snails did not have the sequence (the Limpet snail, and the Micromolluscs). In total three snails out of 16 did not have the Sequence. Conclusions/Discussion My conclusion is very shaky because of the limited number of data that I found, but I will try to make it as good as possible. I found that the marine snail category had less snails that had the Fibonacci Sequence, but only by one. I am really afraid to make a statement as to whether or not marine snails are less likely to have the Fibonacci Number Sequence, because I really don't have enough data to prove it. If I stated a conclusion at this point I could very well be proven wrong, so I just will not state a complete conclusion.	
Summary Statement My project is about how a mathematical sequence gives rise or creates a geometric form found in nature.	
Help Received Mother provided transportation; teachers helped come up with question.	