



**CALIFORNIA STATE SCIENCE FAIR
2009 PROJECT SUMMARY**

Name(s) Zachary A. Rose	Project Number J2029
Project Title A Study of the Effect of Simulated Zero Gravity on Plant Growth	
Abstract Objectives/Goals I investigated the effect of zero gravity on plant growth. I chose this topic because plant physiology is a topic that I wasn't well versed in and wanted to learn more about. Methods/Materials In order to observe the effects of zero gravity on plant growth I had to simulate zero gravity. I did this by turning the plants on a clinostat, which is a slow rotating motor. Results The plants grew slower and developed a spiral growth pattern. Conclusions/Discussion These effects may be caused by the plant following rotation of the clinostat, or possibly the spiral growth is the true effect of zero gravity on plant growth.	
Summary Statement My project investigates the effect of simulated zero gravity on the growth of Brassica rapa.	
Help Received Mother helped edit report; Dad helped with construction and the experiment; Dr. Boolootian assisted with editing, concept, and interpretation.	