



**CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY**

Name(s) Jadie A. Pruitt	Project Number 34951
Project Title Hermie the Worm	
Abstract Objectives/Goals The purpose of this experiment was to answer this question: Will introducing European Nightcrawler into the soil of potted winter/rocket snap dragons help them grow taller? Methods/Materials Nine snapdragons were given the same amount of soil, water, and sunshine for three weeks. These snapdragons were into three groups of three, and the only difference between these groups was that one group had two European night-crawlers, a breed of earthworm, in the soil, another group had five earthworms, and the last group had none. The last group was the control group of this experiment. Apple slices of the same weight were placed in each pot everyday to feed the worms. The plants were measured on the first and last day of the experiment. Results This experiment proved that the snapdragons that received worms grew taller in three weeks than the control group which did not. The results also showed that the plants that received two worms grew taller in three weeks than the plants with five worms. This suggests that there are too many worms in this pot and a bigger pot might produce the same result as was received from the pots with two worms. Conclusions/Discussion It was concluded that adding European night-crawlers, a breed of earthworm, to the soil of potted snapdragons will their help them grow taller. It was also concluded that adding 2 worms increases the flowers' heights more than adding five worms for this pot size. This suggests that the 5 worms did not have enough room and that there were too many worms in those pots. This might not be this way had the flowers been in a bigger pot, but this is a good indicator of what the best worm to soil ratio is.	
Summary Statement The object of the experiment was to determine whether introducing European night-crawlers into the soil of potted snapdragons will help them to grow taller.	
Help Received Mom bought supplies; family friend watered the plants one day while I was out of town	