



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

Name(s) Jennifer L. Haden	Project Number J1609
Project Title Sinister Sunflowers	
Abstract Objectives/Goals My objective was to determine how far plants should be grown from sunflowers in order for them to be safe from the sunflowers' allelopathic toxins. Methods/Materials I planted two planter boxes, each with a small group of sunflowers at the end. Sunny Royal Viola flowers were planted in a line down the box. They were all given the same amount of water and sunlight. The plants were measured in small groups every few days. Results The plants farthest away from the sunflowers grew to be the tallest, while the plants closest to the sunflowers either died and turned brown, or just did not grow. Conclusions/Discussion My results allowed me to determine that plants should be grown at least thirty centimeters away from sunflowers to be safe. Plants closer than this will die quickly.	
Summary Statement My project is about the allelopathic powers of sunflowers, or the way that sunflowers poison plants through their roots.	
Help Received My mom and dad helped me with my board and experiment, and my mentor Robert Howry helped me form my experiment.	