



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Victoria Garcia	Project Number S1411
Project Title The Effects of Cigarette Smoke on Plants	
Abstract Objectives/Goals My project was to determine if cigarette smoke altered the growth and development of plants. I hypothesized that the cigarette smoke would definitely harm the plants# growth and development. Methods/Materials Before testing, I planted six cabbage and six celery plants in a container for the control group and another six cabbage and six celery in a large container for the experimental group. I also had to make a rectangular sphere out of straws and six 15 cm straws for the purpose of preventing the bag from falling on top of the cigarettes or plants. Once I had that, I started testing. Every day, I would place the experimental plant container (which had the 15 cm straws in it) in a plastic bag with the rectangular sphere made of straws. I would then place the two cigarette containers in the sphere with two lit cigarettes. I then tied the bag. After two hours, I would take the container out and measure the plants, including the control set of plants. Results The results were that the cigarette smoke did affect the growth and development of the plants. Conclusions/Discussion In conclusion, cigarette smoke is hazardous to the development of plants.	
Summary Statement It is about the harm that cigarette causes to plants.	
Help Received Teacher reviewed overall project	