



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) Jasleen K. Bains	Project Number J0603
Project Title Comparing Different Soil Types in Transporting Toxic Chemicals	
Abstract Objectives/Goals The objective of my experiment was to determine which soil type (clay, loam, or sand) transports toxic gasoline fumes the quickest. Methods/Materials Three different soil types - loam, clay, and sand were collected. I then added each soil type to a plastic container. Next, I placed a plastic tube on the soil. I then placed two crickets into each plastic tube and taped off the exposed end. I then poured 12 oz. of gasoline onto the soil. I waited for the crickets to die to determine how long it took the fumes of the gasoline to transport through the soil and into the tube. Results The sand soil transported the gasoline fumes the fastest. Therefore, gasoline or other toxic chemicals travel through sandy soil very quickly. The crickets in the clay soil took the longest to die. Therefore, toxic chemicals do not travel through clay soil very quickly. Conclusions/Discussion All soil types allowed toxic gasoline fumes to travel through and kill the crickets. In conclusion, gasoline fumes are toxic and should not have any contact with the environment	
Summary Statement The purpose of my project was to compare different soil types in transporting toxic chemicals.	
Help Received Teacher helped put display board together.	