



**CALIFORNIA STATE SCIENCE FAIR
2009 PROJECT SUMMARY**

Name(s) Kylie C. Sullivan	Project Number J1130
Project Title Ice vs. Environment	
Abstract Objectives/Goals This project was used to find if there is an environmentally friendly way to melt ice. Methods/Materials Snow freezes over road and forms very slippery ice. the ice is melted by salt which is bad for the environment. In order to find a more eco-friendly ice-melting alternative, various substances (table salt, epsom salt, fertilizer, cat litter, play sand, plaster sand, and gravel) were spread atop ice blocks to test the material's ice-melting abilities. the same substances were mixed into tap water and used to water petunia plants. Results Table salt, epsom salt and fertilizer all acted the same (killed plants and melted ice quickly). Plaster sand and cat litter both sustained the life of the plants, but didn't melt the ice very well. Play sand (a light colored sand) and gravel were both balanced substances meaning that they could melt ice and sustain the life of plants. Conclusions/Discussion Either a light colored sand or a gravel will be better to use than salt if the instance isn't urgent and the ice situation isn't too severe. if quick ice melting is a major safety issue, salt will be a better alternative to melt the ice.	
Summary Statement My project was to find an eco-friendly way to melt ice.	
Help Received Mother and Father helped to acquire the necessary materials and Mrs. Schumacher and Mrs. Gillum helped with editing and getting my project started.	