



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

Name(s) Megan A. Futscher	Project Number S0506
Project Title Salt and Ice	
Abstract Objectives/Goals My goal was to see if the speed at which a salt melts ice is related to the salt's molecular structure. Methods/Materials I used three types of salt: Sodium chloride, Potassium chloride, and Magnesium sulfate. I put a small measurement of each of the salts into cups with ice cubes and measured the length of time it took each salt to melt the ice cubes completely. I repeated the experiment 3 times. Results Sodium chloride melted the ice the fastest, followed by Potassium chloride. Epsom salt made the ice take longer to melt than the control. Conclusions/Discussion The salts with a cubic crystal form (Sodium chloride and Potassium chloride) were close in their melting times, and the salt that had an acicular (needle-like) crystal form took longer than the control to melt the ice. I think that these differences in crystal form have an effect on the speed at which a salt melts ice.	
Summary Statement My project looks at how the structure of a salt effects the speed at which it melts ice.	
Help Received My mother helped me narrow down my topic. I got part of the idea from the internet.	