

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
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Project Title	\mathcal{P}
Crazy Crystals: In Which Temperature Condition Do Crystals Grow Largest and Clearest?	
Abstract	
 Objectives/Goals In my science fair project, I tested which temperature condition crystals grow the temperature conditions I used were an ice bath (4° C), a refrigerator (10° C (22.22° C).My hypothesis was that the crystals that grew at room temperature vere clearest, based on my research. Methods/Materials The crystals are formed by recrystallization and are made from a supersaturated and water (with a ratio of 60 grams of borax for every 235 m. of water in each grown in). So I made the borax solution by boiling the water so that more for at a cooler temperature. Then equal amounts of solution was pound into the cut three different temperature conditions. Results The solutions cooled in the ice water grew many small opaque crystals; the one grew bigger in size, clearer in transparency, and formed a more recognizable cut solutions cooled at room temperature grew the best of all with a large, clear, ar Conclusions/Discussion This shows that crystals grown from a jolution need to be cooled slowly, not quilarge and clearly. My hypothesis was right A real-life application of my project how to make large and sweet sugar crystals (rock candy) and other crystals by precrystallization at a warm temperature. Scientists also use this method to obtain the interval of the solution of the product of the context of the provide the second slowly.	, and room temperature yould grow the largest and a solution of borax powder cup the crystals were a would dissolve in it than ps, and then placed in the es cooled in the fridge the shape. Finally, the ad hard structure.
recrystallization at a warm temperature. Scientists also use this method to obtai a solution, which is also called purification.	n a desired substance from
Summary Statement I will terr in which temperature condition do borax crystals grow the largest and	d clearest.
Help Received Mrs. Buck gave advice.	