



**CALIFORNIA STATE SCIENCE FAIR  
2008 PROJECT SUMMARY**

<b>Name(s)</b> <b>Hannah N. Schuyler</b>	<b>Project Number</b> <b>J0514</b>
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<b>Project Title</b> <b>Ice Ice Baby</b>
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<b>Objectives/Goals</b> The purpose of my experiment was to determine the melting rate of ice with different concentrations of salt and sugar solutions.	<b>Abstract</b>
<b>Methods/Materials</b> 20 100 ml plastic cups 220g salt NaCl(Ralph's Iodized Salt) 220g sugar (Pure Cane Sugar) 2,050mL tap water 5 funnels 5 100 ml graduated cylinders	4 800mL plastic containers WhirlPool Gold Freezer US Balance Professional Mini Scale US Magnum (500gx0.1g) 100g balance calibration weight Stopwatch Masking tape
<b>Results</b> The meting rates were:  Frozen Solutions      Melting Rate of Ice (mL/min)  Control                    0.20 1% Salt                    0.25 1% Sugar                   0.20 10% Salt                   0.47 10% Sugar                 0.26	
<b>Conclusions/Discussion</b> My conclusion is that salt lowers the freezing point of water more than sugar does which causes it to melt faster.	

<b>Summary Statement</b> My project is about determining the melting rates of ice with different substances and concentrations.
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<b>Help Received</b> My mom double checked my work and made sure my measurements were correct. Mrs. Wentz answered all of my questions. Also, Mrs. Wentz and Mrs. Oggiano let me borrow their laboratory equipment.
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