



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

Name(s) Jennifer R. Cohen	Project Number J0507
Project Title Which Type of CO(2) Carbonation Keeps Its Bubbles the Longest When Added to Liquid?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals I tested whether liquid carbonated with dry ice keeps its bubbles longer than pre-carbonated water bought in a store or liquid carbonated with carbon dioxide in the form of a tablet. I hypothesized that liquid carbonated by dry ice would keep its bubbles longer than store bought pre-carbonated liquids or liquids carbonated with carbon dioxide tablets.</p> <p>Methods/Materials To test my hypothesis, I compared the time in which water carbonated with dry ice kept its bubbles to water carbonated with carbon dioxide tablets and pre-carbonated water. I repeated the experiment seven times.</p> <p>Results I found that water carbonated with dry ice kept its bubbles an average of 4 hours and 27 minutes. In comparison, pre-carbonated water kept its bubbles an average of 3 hours and 32 minutes and carbon dioxide tablets kept its bubbles an average of 3 minutes and 42 seconds.</p> <p>Conclusions/Discussion I concluded that liquid carbonated with dry ice kept its bubbles the longest.</p>	
Summary Statement Which type of CO(2) carbonation keeps its bubbles the longest when added to liquid?	
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