



**CALIFORNIA STATE SCIENCE FAIR  
2008 PROJECT SUMMARY**

<b>Name(s)</b> <b>Ryan M. Howes</b>	<b>Project Number</b> <b>J1915</b>
<b>Project Title</b> <b>Explosions</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The purpose of my project was to determine which resealable bag could withstand the most pressure without breaking. I predicted that Glad Zipper Bags would perform the best in my experiment. <b>Methods/Materials</b> The experiment involved combining vinegar, water, and baking soda to form a chemical reaction that would test the strength of each brand of reclosable bags. The bags were labeled and then the same combination of baking soda, water and vinegar was added to each of the bags. They were sealed, shook, and the results recorded. The experiment was repeated three times for each of the bags to be tested. <b>Results</b> Of the five resealable bags tested, the Vons/Safeway store brand withstood the most pressure without breaking or the seal opening. <b>Conclusions/Discussion</b> The Vons/Safeway resealable sandwich bags consistently preformed better than the other bags tested. It would be the brand to use when strength is needed	
<b>Summary Statement</b> The purpose of my project was to determine which brand of resealable sandwich bags could withstand the most pressure.	
<b>Help Received</b> My mother took pictures for the project board and journal.	