

## CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s) **Project Number** Delayna C. Corts 34669 **Project Title** Chemistry of Baking: Can You Make Your Own Baking Yowder? **Abstract Objectives/Goals** My objective is to see if you can make your own baking powder using baking cream of tartar. Methods/Materials Materials used are muffin pans, measuring cups, timer, kitchen scale ruler, and muffin ingredients. This includes cornmeal, water, baking powder for control, baking soda and cream of textar. I made a "control" batch of muffins using baking powder and four batches using different amounts of baking soda and cream of tartar. I want to see which amount of each comes closest to the control batch. oda was the test batch most similar to the The third recipe with 1.5 tsp. baking soda and .75 tsp. baking control batch. **Conclusions/Discussion** Baking powder is a blend of baking soda and cream of cartax ater is added to the mixture, a reaction causes CO(2) to be trapped in the muffin forming air-pockes which causes the muffin to be less dense. This is an example of acid/base chemistry **Summary Statement** made with baking soda and cream of tartar. **Help Received** My mother and science teacher helped me proofread.