



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) Kasey N. Nakajima	Project Number J1122
Project Title Muffin Fluff: The Effect of Flour Type on Muffin Density	
Abstract Objectives/Goals In this experiment, the goal is to find the effect of flour type on the density of muffins. Out of all the different flour types used, the experimenter believed that soy flour would create the densest muffin. Methods/Materials Different types of flour that were tested include oat flour, wheat flour, soy flour, all-purpose flour, and unbleached flour. One batch of muffins was made for each type of flour using the same recipe. After baking, the experimenter calculated each muffin's density by measuring its weight and volume. Results After reviewing the collected data, the experimenter found that oat flour made the densest muffins. Conclusions/Discussion In conclusion, the experimenter's hypothesis was not supported. She also found that the gluten level in flour greatly affects the density of baked goods. Things that may have influenced the experimenter's results could have been the consistency of oven temperature, the consistency of the room temperature, and how well the batter was mixed.	
Summary Statement My project explores the effect of flour type on muffin density.	
Help Received My mother and father helped me convert my raw data into computerized graphs.	