



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

Name(s) Lauren S. Mittelman	Project Number J1121
Project Title Seize That Stain!	
Abstract Objectives/Goals My project goal was to determine which laundry detergent works most effectively on a pizza sauce stain. I used five different detergents. Besides the detergents, nothing in each trial was changed.	
Methods/Materials MATERIALS Five two-tablespoon quantities of Tide laundry detergent (liquid), Cheer laundry detergent (liquid), All laundry detergent (liquid), Purex laundry detergent(liquid), and Gain laundry detergent(liquid), Teaspoon for measuring Tablespoon for measuring Twenty-five one-teaspoon amounts of pizza sauce Twenty-five three-inch by three-inch pieces of cotton One glass bowl One toothbrush One porcelain plate One digital timer One water temperature thermometer Two tweezers Seventy-five cups of water at 106 degrees Fahrenheit I hand washed pieces of cotton laundry detergent with pizza sauce stained into the cotton. I mimicked how a washing machine would wash this item by hand. Doing my experiment, I didn't change any aspect except for the laundry detergent. You can see how I conducted each trial by looking at my procedures in my notebook or on my backboard.	
Results My results varied much from detergent to detergent. Each laundry detergent had a specific number which was the average coming from all the trials of that specific detergent. The averages are as follows: Tide-8.2; All-7.4; Cheer-7; Purex-6.2; and Gain-5.4. You can see what the color of each average on my scale of results in my notebook, or on my backboard.	
Conclusions/Discussion My conclusion was that Tide laundry detergent worked most effectively on stains. This might be because the Tide laundry detergent formula leaves out quite a bit of water to make their formula more	
Summary Statement I tested different laundry detergent brands to see which one was most effective on a pizza sauce stain.	
Help Received Mother paid for and bought all supplies; Science teacher answered my questions.	