



California Science Center  
**CALIFORNIA STATE SCIENCE FAIR**  
**2001 PROJECT SUMMARY**

<b>Your Name</b> (List all student names if multiple authors.) <b>Shadi Gholizadeh; Roujin Mozaffarimehr; Laura Quan</b>	<b>Science Fair Use Only</b>  <span style="font-size: 2em; font-weight: bold;">S1208</span>
<b>Project Title</b> (Limit: 120 characters. Those beyond 120 will be ignored. See pg. 9) <b>Lipstick Testers and Bacteria</b>	<b>Division</b> _ Junior (6-8) <u>X</u> Senior (9-12)
<b>Preferred Category</b> (See page 5 for descriptions.) <b>12 - Microbiology</b>	
<b>Abstract</b> (Include Objective, Methods, Results, Conclusion. See samples on page 14.) Use no attachments. Only text inside these boxes will be used for category assignment or given to your judges.	
<p><b>Objective:</b> Our objective was to determine the amount of bacteria found in lipstick testers compared to new unopened lipstick.</p> <p><b>Materials and Methods:</b> At three different locations, we took samples of lipstick testers and unopened lipsticks. We used sterile cotton swabs to apply the samples to the petri dishes. After a period of six days in an incubator, we recorded our observations. We observed any changes that occurred after seventeen days as well.</p> <p><b>Results:</b> Our results showed that we had hypothesized correctly. The petri dishes with the samples from the lipstick testers had grown larger amounts of bacteria, ranging from one millimeter to seven centimeters. The petri dishes with samples of the new lipsticks showed no signs of bacteria.</p> <p><b>Discussion:</b> Have you ever wondered what's lurking in the lipstick testers found in every mall and most local drugstores? Our experiment compared the growth of bacteria in makeup counter testers and unopened lipstick. Makeup should be changed every 30 months, as said by an FDA report last year. Studies have shown that the bacteria in cosmetic products grow very rapidly, and must be watched carefully to prevent the spread of disease, anything from the common cold to herpes simplex.</p>	
<b>Summary Statement</b> (In one sentence, state what your project is about.) Our project shows the comparison of the amount of bacteria in lipstick testers to the unopened lipstick.	
<b>Help Received in Doing Project</b> (e.g. Mother helped type report; Neighbor helped wire board; Used lab equipment at university X under the supervision of Dr. Y; Participant in NSF Young Scholars Program) See Display Regulation #8 on page 4. Parents for transportation and support, and Teacher for guidance providance of supplies	