



**CALIFORNIA STATE SCIENCE FAIR  
2007 PROJECT SUMMARY**

<b>Name(s)</b> <b>Zoe M.F. Brier</b>	<b>Project Number</b> <b>J1405</b>
<b>Project Title</b> <b>How to Reduce Bacteria on a Sponge</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My objective was to find out if time in a microwave affects the amount of bacteria on a sponge. My hypothesis was if a sponge is put in a microwave for a longer amount of time, then more bacteria will be killed. <b>Methods/Materials</b> My main materials were sponges, a microwave, agar, and agar dishes. I heated up the sponges in the microwave and tested the amount of bacteria on them with agar and agar dishes. <b>Results</b> My results were that more bacteria was killed if I put the sponge in the micorwave for longer, just like I hypothesized. I realized that putting the sponge in the microwave for two minutes really reduced a lot of bacteria. <b>Conclusions/Discussion</b> My hypothesis was correct. This proves that bacteria can be killed off on a sponge if put in the microwave. In the future, I would do research about what kinds of bacteria there were and if the microwave killed off only some types.	
<b>Summary Statement</b> My project was done to find out if a microwave oven reduced bacteria on a sponge.	
<b>Help Received</b> Mother helped boil agar.	