



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2019 PROJECT SUMMARY**

Name(s) Darina Dang	Project Number J1906
Project Title Cutting Board Bacteria	
Abstract Objectives The objective of this study is to find out what type of cutting board would have the least bacteria. Methods Cutting boards: Wood, Bamboo Wood, Plastic, Glass, Petri dishes, Sterile Swab, Incubator. Swab cutting boards and then swab onto Petri dish. Incubate for 5 days to look at bacteria growth. Results The plastic cutting board had an average growth of 227.33mm ² after 5 days. 0.33mm ² for Wood, 3.5mm ² for Bamboo, and 0mm ² for glass. Glass cutting boards did the best with no bacteria growth. Conclusions Glass cutting boards are most resistant to bacteria rather than plastic, wood and bamboo wood. Plastic had the most growth of bacteria. Comparing the bamboo and wood cutting boards to the plastic cutting boards, the bamboo and wood are more sanitary.	
Summary Statement I swabbed different types of cutting boards and learned that a glass cutting board is the most sanitary type of cutting board.	
Help Received I swabbed the cutting boards and incubated the Petri dishes myself. My neighbors and family members gave me their consent to use their cutting boards. My mother paid for all materials and guided me to using Excel. My teacher, Mrs. Conrad, allowed me to use her incubator.	