



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Brittany E. Alexander	Project Number 22908
Project Title Does Depth Affect the Growth Rate of Balanus eburneus?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My goal was to see if the depth of tiles affected the growth rate and amount of Balanus eburneus growing on them. I also wanted to study the life cycle of Balanus eburneus and also help ship builders and sailors of ships so they would know what depth Balanus eburneus prefer to attach so they would know what area of their ships they might have to give an extra coating of fowling paint and there wouldn't be as many problems with barnacles on ships.</p> <p>Methods/Materials (4) ceramic tiles (1) 4 1/2 foot piece of rope (1) thermometer (1) succy disc (string and gold metallic tissue paper) (1) pen and paper to record data and observations (1) digital camera (for pictures) (1) piece of acetate paper with grid print on it</p> <p>Results My results differed from my hypothesis because the 3rd tile had more starts and barnacles than tile 1, which I thought would have the most. I found out how this is possible. Barnacles are sensitive to UV light so they prefer to be away from the surface. According to my research, barnacles prefer to be in the middle. When I found this out I was surprised. I didn't know barnacles were sensitive to UV light. That's just one of many surprising and interesting facts I learned while doing this project.</p> <p>Conclusions/Discussion My conclusion was that the depth of the tiles did affect how many barnacles grew on each tile. The deeper the tiles were the more barnacles grew on them. Except my results turned out different. Tile 3 had the most barnacles and starts.</p>	
Summary Statement Does depth actually affect the growth rate of Balanus eburneus.	
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