

## CALIFORNIA STATE SCIENCE FAIR 2017 PROJECT SUMMARY

Name(s)	Project Number
Jamie M. Lin	S1212
Project Title The Effect of Acidification on Mytilus edulis Shells	
Objectives/Cools Abstract	
The pH of seawater was changed to test how different acidities aff edulis shells over time. <b>Methods/Materials</b> An equal number of Mytilus edulis shell halves were separated in o of distilled water with instant ocean sea salt. Each container was r white vinegar and their acidities were measured with a pH meter. cleaned, and their masses recorded. The process was repeated for <b>Results</b> Out of the 4 groups of shells tested, Group C (pH=7.4) appeared to mass with its mass decrease at an average of 0.045 grams. Group overall mass decrease of an average of 0.21 grams. Group D (pH= change in mass while Group A (pH=8.4) showed the least amount <b>Conclusions/Discussion</b> This experiment supported the hypothesis that the seawater with a the shells to lose more mass over the span of 3 weeks. This transla in the future as the ocean continues to become more acidic.	<ul> <li>fected the total composition of Mytilus</li> <li>4 separate containers (labeled A,B,C,D) mixed with different amounts of distilled Each week, the shells were removed, 3 more weeks.</li> <li>o have the greatest overall change in B (pH=7.6) had the second greatest =7.2) had the second least overall corr mass change.</li> <li>lower pH (more acidic) would cause ates to greater devastation of marine life</li> </ul>
Summary Statement I demonstrated the affect of ocean acidification by observing muss solutions for a span of three weeks.	sel shells that were placed in acidic
Help Received My science teacher provided the guidelines and equipment in orde	er to conduct the experiment.