



**CALIFORNIA STATE SCIENCE FAIR  
2015 PROJECT SUMMARY**

<b>Name(s)</b> Edwin Gao; Leonardo Zepeda	<b>Project Number</b>  35015
<b>Project Title</b> The Effects of Ocean Acidification on Clamshells	
<b>Abstract</b> <b>Objectives/Goals</b> Our goal in this project is to inform and bring this problem about ocean acidification to the public to try and educate people to try and stop this issue before it becomes a greater threat to everyone. <b>Methods/Materials</b> Our materials important materials for this project were 2 Clam shells, 4.5 cm of acidified seawater, 4.5 cm of fresh water, 1 PH strip. Our methods to investigate our experiment were (1.) Get materials. See materials list. (2.) Start experiment by putting one clam into a tank with tap water and another into a tank with acidic seawater. (3.) Take pictures over the course of 20 days. (4.) After 20 days we take out the clams from their tanks and we take some final pictures. Record our results. (5.) Write down if our hypothesis was correct or not. <b>Results</b> Our experiment has shown that the clams shell in the acidic water has been damaged. Pieces of the shell has chipped and or left great cracks in the shell of the clam. The clam in tap water has shown no signs of damage. The results has shown us how ocean acidification can break down the structure of the clam shell. <b>Conclusions/Discussion</b> In conclusion our project has shown us that our hypothesis was correct and that the clam in the seawater did chip and crack due to the ocean acidification. We have realized that if the public does not do anything to stop this problem this issue will become to strong causing a lack in sea life and a great distortion in the food web. We hope that the public will try to change how much carbon dioxide they use.	
<b>Summary Statement</b> How ocean acidification in the monterey bay affect clamshells	
<b>Help Received</b> Joseph Appiot	