



**CALIFORNIA STATE SCIENCE FAIR
2013 PROJECT SUMMARY**

Name(s) Mikhaella Anne D. Napiza	Project Number J0499
Project Title Application of Classical Conditioning on Saltwater Fish	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals To study the behavior of the saltwater fish during feeding time with a simulation of Pavlov's bell both on the open space and isolated chamber in the aquarium.</p> <p>Methods/Materials</p> <ol style="list-style-type: none">1. Ring the bell daily for 10 days pair the sound of the bell with fish food.2. Ring the bell daily for another 10 days but delay the giving of food.3. Check if the fish would come when they hear the sound of the bell, and stay in the same spot for 20 days. <p>Results The fish responded to the neutral stimulus for 3-5 minutes and waited. Then they were given food which made the unconditioned response. In the end, the fishes responded towards the neutral stimulus making it a conditioned stimulus therefore giving a conditioned response.</p> <p>Conclusions/Discussion My hypothesis was correct. The saltwater fish behavior in an open space and in an isolated chamber can contribute to the theory of Classical Conditioning.</p>	
Summary Statement The project is about the training of fish behavior to eat at the sound of a certain stimulus and application of the theory of Classical Conditioning.	
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