



**CALIFORNIA STATE SCIENCE FAIR
2016 PROJECT SUMMARY**

Name(s) Berenice Vega	Project Number 36378
Project Title Reaction Rates: Does Temperature Affect the Iodine Clock Reaction?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The goal was to find out if temperature affected the rate of the iodine clock reaction.</p> <p>Methods/Materials Stopwatch, distilled water, Vitamin C tablets, 2% Iodine tincture, hydrogen peroxide, liquid laundry starch, disposable cups, thermometer, gas stove, an refrigerator. I made two solutions and poured them at the same time while timing the reaction. Three different batches were made one hot, one cold, and one room temperature.</p> <p>Results After many trials to ensure accuracy, it was evident that temperature played a key role in reaction rates. The solutions made with cold water were the slowest to react, while the solutions made with hot water were the fastest to react.</p> <p>Conclusions/Discussion After determining the results of the experiment, it is evident that temperature plays a key role in reaction rates. This supports the idea that you can alter the amount of time it will take for a chemical reaction to react by varying the temperature.</p>	
Summary Statement Based on the results, temperature plays a key role in altering the reaction time of the Iodine Clock reaction.	
Help Received I performed the Iodine Clock reaction myself, however, I received aid in understanding what happens in the reaction from the website Science Bob.	