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CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

	Project Number
Sofia N. Truong	J0624
Project Title	
Another Mail Bites the Rust	
Abstract	
 Objectives/Goals America has spent over 300 billion dollars in repairs for rusted bridges project is to determine what is the effect of a certain pH of a liquid on the project tests what liquid will induce an untreated nail to rust the fastest. Methods/Materials Four acidic liquids (vinegar, orange juice, Coke, and Sprite) and three be boiled water) were chosen for this project. Two pre-weighed common u liquids with the head of the nails resting on the edge of a container to see The nails were observed daily for 14 days for its appearance, luster, col Results My experimental results showed that plain water and salt water had cre had an increase in weight because of the rust that had formed on the nails	and buildings. The purpose of this he rusting process of metal. This pasic liquids (water, salt water, and untreated nails were placed in each ee the difference as the nails rusted lor, and weight. ated the most rust on the nail and ils. The color of the rust was
orange and signs of rust had started in the first 24 hours. Conclusions/Discussion My hypothesis that the most acidic and most corrosive liquid will rust t with my experiment. My research for this experiment showed that rustic by the ph of a liquid. It will be interesting to further this experiment by evaporation and carbonation on the ph of a liquid.	the nail the fastest did not happen ng process of metals are affected finding out the effects of
Summary Statement	
The purpose of this project is to determine the effect of ph of liquids on using liquids of different levels of pH and immersing untreated nails in for levels of rusting.	the rusting process of metals by them for 2 weeks and observing
Help Received	