



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2019 PROJECT SUMMARY**

Name(s) Samira Mehrinfar	Project Number J0212
Project Title A Healthier Way to Fuel	
<p style="text-align: center;">Abstract</p> <p>Objectives The objective of this project is determine the visual effect when adding different levels of methoxide solution on algae oil to create a biodiesel .</p> <p>Methods Lye, Rubbing alcohol, Bunsen burner, safety goggles, lab coat, gloves, test tubes, algae oil, thermometer, supervisor, electronic weight, timer, and measurement cup.</p> <p>Results The different levels of methoxide solution was compared through the visual outcome of the biodiesel. When observing the results, the higher the amount of solution the substance would sulfified.</p> <p>Conclusions After performing this experiment, I realize the importance of each and every factor when making biodiesel, especially molar ratio. Based of my results, the more amount of a substance needed will create wild results. With this in mind, I can have a better understanding about biodiesel.</p>	
Summary Statement I created different levels of a methoxide solution, tested it on algae oil, and observed the visual outcome of the biodeisel when putting too much and too little.	
Help Received I was supervised by my science teacher, Mr. Briner. He watched me do my experiment, as well let me use his lab as well.	