

## CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s) Sejal Chopra	Project Number J0608
Project Title From Fryer to Fuel	
Abstract   Objectives/Goals The purpose of this experiment is to find out which frying grease will produce t of quantity and quality as an end result.   Methods/Materials First, I filtered my four, restaurant obtained oils (Vegetable Oil, Olive Oil, and Oil) and removed any traces of water by boiling it. Then, I created methoxide, weeks. Distinct layers of glycerol and biodiesel started to form and after three v oil. Finally, to really test its quality, I ran a few tests, such as the 3/27 methyl al biodiesel truly was biodiesel.   Results My hypothesis is the following: If the amount of biodiesel made is tested from 1 Oil, Olive Oil, and Canola Oil, then Canola Oil will produce the most biodiesel correspondence with the hypothesis, the average oils produced biodiesel from a amount in the following order: Vegetable Oil (193 ml), Canola Oil (155 ml).   Conclusions/Discussion I learned a lot from doing this project. I learned that out of four commonly used Oil is the best oil to use in making biodiesel in terms of quantity and quality. Fr was to accomplish making a simple batch of diesel, and more importantly, the c further expanded my knowledge in chemical reactions, which I can definitely approximation.	Canola Oil, then Canola which was necessary for e and let it sit for three veeks, I siphoned out the cohol test, to see if my Soybean Oil, Vegetable in the end result In greater amount to the least bybean Oil (116 ml), and I frying greases, Vegetable om this, I saw how easy it chemistry behind it. This
Summary Statement I will test which frying grease will produce the most biodiesel in terms of quant commonly used frying oils.	ity and quality from four

## **Help Received**

My mother and father helped me obtaining my oils. My science teacher, John Briner, supervised me during my time experimenting in the lab.