



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

Name(s) Leila Kessler	Project Number J1215
Project Title Dog Aid: Chew Deterrent Wound Dressings	
<p style="text-align: center;">Abstract</p> <p>Objectives The objective of this project is to utilize a dog's high sense of smell as the solution to creating an improved method of treating their wounds and injuries. By combining natural essential oils with traditional wound dressings, I wanted to create new devices or methods that are more effective than "dog cones" at preventing dogs from aggravating their injuries and prolonging recovery times.</p> <p>Methods Peppermint and Lemon Essential oils, plaster, adhesive bandages, and aluminum sheets. Added essential oils to bandages and created casts to test the effectiveness of scents, even with temptations that dogs are not willing to resist.</p> <p>Results Several dogs were tested using their preferred treats to see how resistant they would be toward the specific scents. These trials were repeated in order to see just how persistent each dog was. When each dog could no longer withstand the scent's aroma, they would no longer attempt to get to the treat.</p> <p>Conclusions The trials taken in testing have proved that dogs can show resistance, even when they are tempted with an aliment of their liking. It is to be concluded that dogs can show the same amount of resistance when faced among a wound that they want to chew at.</p>	
Summary Statement My project is corely based on finding ways to stop dogs from chewing at their wounds because it can slow down the healing process, or stop it entirely.	
Help Received Michael Kessler and Mrs.Price.	