



**CALIFORNIA STATE SCIENCE FAIR  
2008 PROJECT SUMMARY**

<b>Name(s)</b> <b>Madison T. Vogt</b>	<b>Project Number</b> <b>J2019</b>
<b>Project Title</b> <b>Non-Toxic Detour Ants</b>	
<b>Objectives/Goals</b> To find non-toxic substances that repel ants	
<b>Methods/Materials</b> Tested each ingredient using 30 ants per substance. Ingredients included cinnamon, salt, black pepper, cayenne pepper, Borax, and vinegar. Used stop watch to time how long the ants remained in the barrier. Created barrier using a 10 cm lid on a paper plate.	
<b>Results</b> Cinnamon was the most repellent substance tested taking an average of 177.15 seconds for the ants to cross the barrier. Borax and salt were the next most effective with black pepper, cayenne pepper and Borax being the least effective.	
<b>Conclusions/Discussion</b> Cinnamon shows some effectiveness and potential in repelling ants. Dry substances with strong smells seem to be the most repellent against ants.	
<b>Summary Statement</b> Non-toxic substances that repel ants.	
<b>Help Received</b> Mother and Aunt helped with experiment.	