



**CALIFORNIA STATE SCIENCE FAIR  
2011 PROJECT SUMMARY**

<b>Name(s)</b> Zackary Liles	<b>Project Number</b>  31233
<b>Project Title</b> Does Price of Two Stroke Oil Affect RPM's?	
<b>Abstract</b> <b>Objectives/Goals</b> To determine if a more expensive two-stroke oil produces more RPM's than a cheaper oil. I chose this project because I want to be able to go the fastest I can and know if the extra money is actually worth it. <b>Methods/Materials</b> In my experiment I will be using two stroke oil and a Trailtech Vector Computer. I am using two-stroke oil in my project to find out if the more expensive two-stroke oil is actually worth it. I am also using a Trailtech Vector Computer Kit in my experiment to track how many RPM's my motorcycle is producing. I will be running the motorcycle at half throttle in second gear and recording the RPM's using the Trailtech computer. During my experiment I will be using Chevron brand gasoline. I am using Chevron gasoline because I want the gas that I use to be consistently at 91 octane level. I will be using the gas to mix with the two-stroke oil to start and run the motorcycle. All experimental procedures will take place with adult supervision (my dad). I am also using proper safety equipment (helmet, gloves, and pads). All used oil will be taken to a local automotive store for proper disposal. <b>Results</b> Price does matter to a slight degree. <b>Conclusions/Discussion</b> Price of two-stroke oil does affect the RPM's produced. The more expensive oils produced on average more RPM's (but not by a lot).	
<b>Summary Statement</b> to determine if a more expensive two-stroke oil produces more RPM's than a cheaper oil.	
<b>Help Received</b> my dad for safety procedures	