



**CALIFORNIA STATE SCIENCE FAIR  
2002 PROJECT SUMMARY**

<b>Name(s)</b> <b>Zack Brendlen; Sean Miller</b>	<b>Project Number</b>  22812
<b>Project Title</b> <b>One Ring to Rule Them All</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> For our project we wanted to find out what metal would go the fastest when propelled by a magnetic induction coil launcher.</p> <p><b>Methods/Materials</b> Method: set up coil launcher, set up computer, hook everything up (Photogate &amp; other instruments), And take data.</p> <p><b>Results</b> Out of the three metals that we tested, (copper, steel, and aluminum) we found that if we set up the lab by volume (every projectile has the same volume) that aluminum would go the fastest. If we set up the lab by weight, then copper would go the fastest.</p> <p><b>Conclusions/Discussion</b> Our conclusion is that steel went the slowest, aluminum went faster, and copper went the fastest</p>	
<b>Summary Statement</b> For our project we wanted to know what metal, when launched from a magnet induction coil launcher, would go the fastest.	
<b>Help Received</b> Used lab equipment under the supervision of Sharon McCorkell and Guy Rowe	