



**CALIFORNIA STATE SCIENCE FAIR  
2005 PROJECT SUMMARY**

<b>Name(s)</b> <b>Ryan T. Bridge</b>	<b>Project Number</b> <b>J0705</b>
<b>Project Title</b> <b>Sending an Electrical Signal Over a Telegraph</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My objective was to see if I could use one "D" battery and send a clear signal over 25 feet. I beleive I can send a signal over 25 feet. <b>Methods/Materials</b> A simple telegraph made of an electromagnet, a key, a sounder, wire, and batteries. I used from one to four "D" batteries and tested them over a 1 to 135 foot wire. <b>Results</b> The 4 "D" batteries could send a good strong signal 125 feet while the 1 "D" battery went only 2 feet. <b>Conclusions/Discussion</b> My conclusion is that the longer the leanth of wire the more power (bateries) that is needed to send a good electracal signal over a telegraph.	
<b>Summary Statement</b> How far you can send a good clear signal over a telegraph with one "D" size batery.	
<b>Help Received</b> Dad helped build telegraph and type my report.	