



**CALIFORNIA STATE SCIENCE FAIR  
2005 PROJECT SUMMARY**

<b>Name(s)</b> <b>Tanner B. Kaptanoglu</b>	<b>Project Number</b> <b>J1519</b>
<b>Project Title</b> <b>How Temperature Affects Magnets</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My objective in the project was to find out if temperature would affect magnetism. <b>Methods/Materials</b> My method to test my hypothesis was to place the magnets into 4 different temperatures. After we got the magnet in that temperature we placed it into a bowl full of paper clips. The amount of paper clips that came out determined the strength of the magnet. Materials: 3 alnico magnets, 201 paper clips, low and high temperature thermometers, bowls, gripper, gloves, and Excel program. <b>Results</b> After testing the magnets in 4 different temperatures the results were when the temperatures were lower the magnets picked up more paper clips. <b>Conclusions/Discussion</b> I concluded that higher temperatures decreased magnetism, while lower temperatures increased magnetism. I also saw that there was little difference between temperatures from 100 degrees to 200 degrees because the amount of decreasing strength stops at some point.	
<b>Summary Statement</b> My project is about how temperature will affect magnetism.	
<b>Help Received</b> My dad helped in controlling dangerous items like boiling water and dry ice.	