

## CALIFORNIA STATE SCIENCE FAIR 2006 PROJECT SUMMARY

Gregory Bailey; Wayne Karim Project Title Magnetic Attraction Can Cause Hot Situations	<b>S0203</b>	
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Objectives/Goals Abstract		
Our experiment will hope to uncover which adjustment to the heat motor efficiently. We will be experimenting with what factor, pendulum wire I will make the motor run most efficiently. <b>Methods/Materials</b> We will be using a regular ceramic magnet to swing in the pendulum, an ceramic magnet. The magnet will dangle on a pendulum and hover over candle while being attracted to a large electro-magnet. Once the heat dis the element, the pendulum will swing. Ultimately it will regain its streng motion. <b>Results</b> We uncovered from our experiments that the heat source intensity was the run most efficiently. <b>Conclusions/Discussion</b> As the heat source became more intense, the suspended magnet's period significantly shorter. on the contrary, the increase of the wire length caus between the suspended and stationary magnets to become stronger, so th move at all.	length or heat source strength, ad an electro-magnet to attract this a candle while being over a ssipates the magnetic properties of gth and continue this pendulum he factor that made the heat motor on the pendulum became sed the magnetic attraction	
Summary Statement Which factor, pendulum wire length or heat source strength, will make a	heat motor run most efficiently.	