Name(s)  
Brandon Phan

Project Number  
J0920

Project Title  
Magnetic Levitation

Objectives/Goals  
My project was on magnets and whether a hot magnet, cold magnet, or room temperature magnet would be stronger. My hypothesis was that a hot magnet would be stronger than a cold magnet.

Methods/Materials  
I had to test the magnets so i build a train and track made of magnets, like a mini model of a Mag Levy train. I went through attempts and fails to make my platform on the track. In the end i used a piece of metal that allowed the platform to go up and down in order for me to test it. I used a .5, 1, 1.5, 2, and 2.5kg and recorded how many centimeters the platform went up and down in order for me to test it. Lastly I put the whole model in the freezer and got it to 2c and then tested it.

Results  
Sometimes the hot magnets were stronger than the cold magnets but over by a huge difference the cold magnets were stronger than the hot magnets and room temperature magnets. The room temperature was the weakest overall.

Conclusions/Discussion  
My conclusion is that cold magnets are stronger than hot and cold magnets.

Summary Statement  
My project was to see which was stronger; a hot magnet, a cold magnet or a room temperature magnet.

Help Received  
none