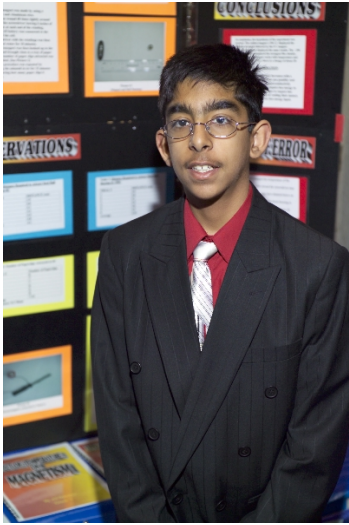


CWSF 2006 - Saguenay, Québec



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Effect of Temperature on Magnetism

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Abstract: In this experiment a rare earth magnet and an electromagnet were subjected to three different temperatures: -196°C, 0°C, 100°C and the resulting flux density was determined. The permanent magnet was also tested at 310°C. It was found that the coldest permanent magnet and the coldest electromagnet displayed the strongest magnetism. At 310°C the permanent magnet exhibited no magnetism.