

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
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Project Title	
Is Magnetism Conserved?	
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Objectives/Goals Abstract	
For my project, I wanted to see if magnets are able to magnetize certain other o	ets without any effect
on their own strength. I wanted to test this because I thought this might mean m	agnets do not follow the
law of conservation of energy. I hypothesized that magnets are able to magnetize depleting their own strength.	ze other objects without
Methods/Materials	7
My test used a magnetometer, several screws and several neodymium magnets: magnetic strength of the objects before and after magnetizing the screw with the	By measuring the
magnetic strength of the objects before and after magnetizing the screw with the	e neodymium magnets, I
was able to determine change in strength of the magnet, and the strength of the (screw).	newly made magnet
Results	
My results showed no noticeable change in the magnetic strength of the neodyr	nium magnets, and a
noticeable but varying change in the magnetic strength of the screwy. Conclusions/Discussion	
The major issue with my experiment was the limited accuracy of the magnetor that my hypothesis was correct, magnets are able to magnetize other objects with magnetic force. Although these results seem to violate the law of conservation	neter used. My results show
that my hypothesis was correct, magnets are able to magnetize other objects with	thout depleting their own
magnetic force. Although these results seem to violate the law of conservation of magnetism is not a type of energy, this experiment does not break the law of co	of energy, given that
magnetism is not a type of energy, this experiment does not break the law of co	inservation of energy.
Summary Statement	
Do magnets retain their magnetic strength after they are used to magnetize anot	ther object?
Help Received	
Father helped record data while I performed the experiment; Used magnetomet	er at CSUMB physics
classroom.	