



Name(s)	Project Number
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Droiget Title	
Project Title Conductive Resins	
Conductive Resins	
Objectives/Goals Abstract	
I wanted to find out how to make conductive epoxies using conductive materials and epoxy resin, and understand the factors that affect the electrical properties of conductive epoxies.	
Methods/Materials	
In my experiments, I mixed epoxy separately with copper filings, copper powder, aluminum granules, and graphite powder. I built an electrical circuit, and measured the resistivities of each resin using an ohm	
meter. Then, I tabulated the ohm meter readings for each type of resin mixture.	
<b>Results</b> My experimental results showed the greatest conductivity on graphite-epoxy mixture. The copper	
filings-epoxy mixture showed the next best conductivity. The aluminum-epoxy mixture did not show any	
measurable conductivity. Conclusions/Discussion	
My observations suggest that the type of conductive material and particle size d	
characteristics of conductive resins. Larger particles form resins with higher co by the graphite garnules-epoxy resin.	onductivity as demonstrated
Summary Statement	
Electrically conductive epoxies can be made by mixing epoxy with electrically	conductive particles.
Help Received My Dad acquired the materials for the experiment. My Mom helped in typing t	the report
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