



# Math and Science Camp News

<http://www.ipfw.edu/msc>

**DAY 1**

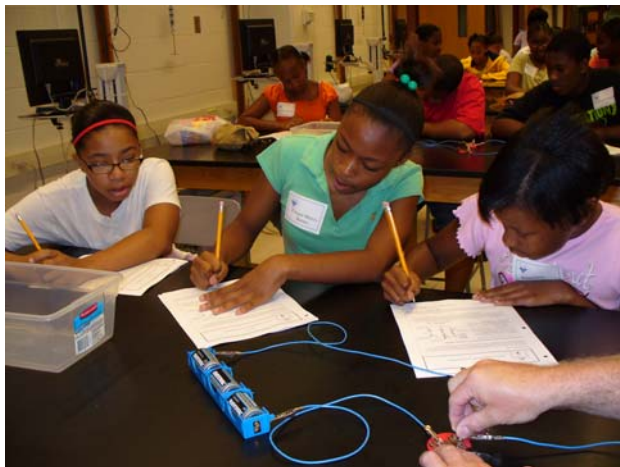
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## Welcome and Electricity . . .

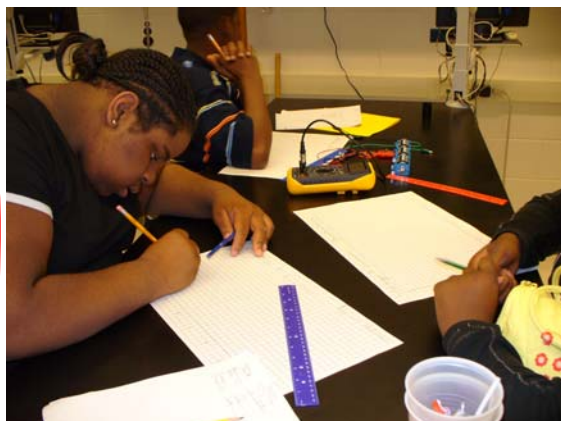
Students arrived this morning with hesitance and excitement, awaiting the adventures of the day. After introductions, they dove right into discovering electricity. Students were given different parts that make up typical household circuits: small light bulbs, wires, and batteries. They asked questions, made predictions and tested their circuits. As the morning progressed they developed a better understanding about the flow of charge through a wire and the things that allow charge to flow through them. They also were able to determine how a light bulb works by testing the parts of the filament and base of the light bulb. Using this they figured out how to light a light bulb with only one wire, a battery, and a light bulb.

## Lunch Hour

It was our pleasure to have an IPFW student majoring in Spanish and electrical engineering technology join us. Joshua Cryer from International Truck and Engine talked about his experiences in college and how he has studied for his degree. He also took the time to answer questions the students had.



## Graphs, Current, and Voltage



Lunch, furnished by FWCS and the camp, was enjoyed by all. With full and satisfied stomachs, the students began to take data from their circuits. Circuits have three properties: resistance, voltage, and current. Students measured these and then graphed them. They were able to find how math and science are tied together. This was beneficial for understanding how their circuit worked. Students studied linear, inverse, and quadratic graphs using the data they had gathered from their circuits.