B3 Energy Project

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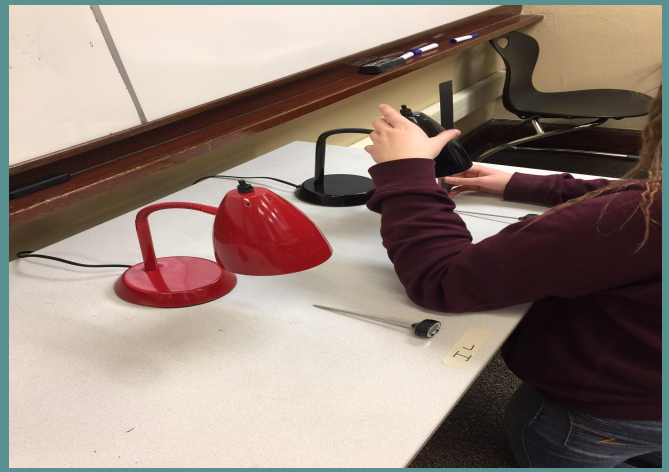
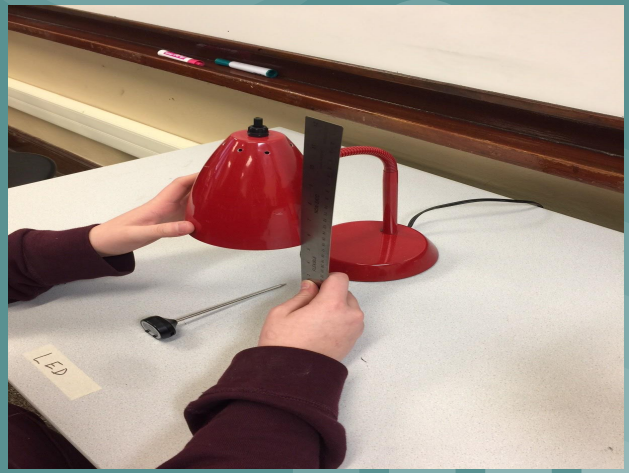
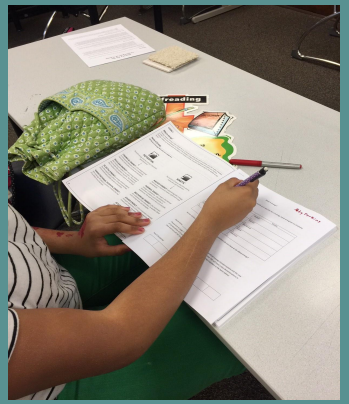


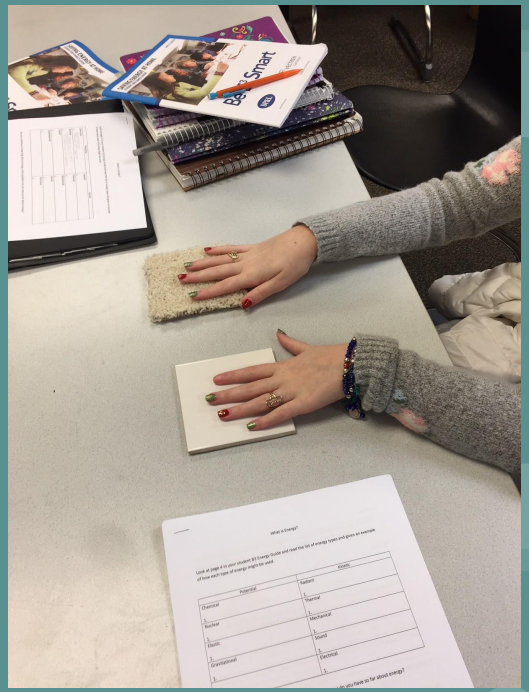
Lab Preparation

Students prepare stations in order to eliminate variables for experiment. Students measure height of each lamp. One observation was the lamps used were different in color which could possible skew data collection results.

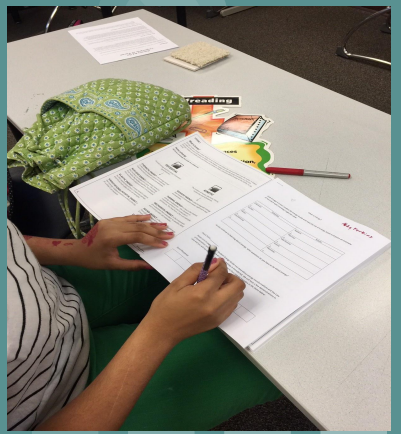


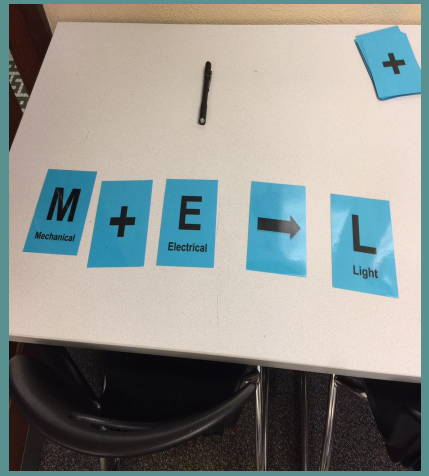


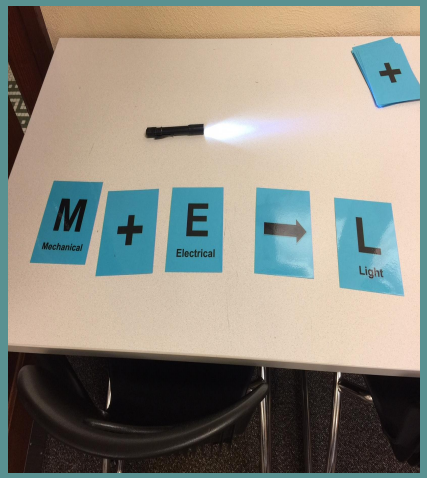
Introduction to Energy



Students read about each type of energy and complete their student and family guide in order to share information with their parents.

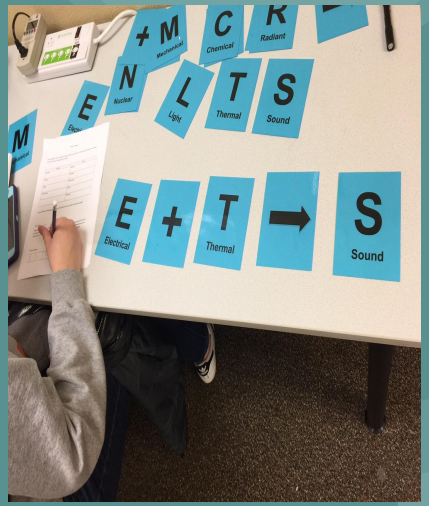


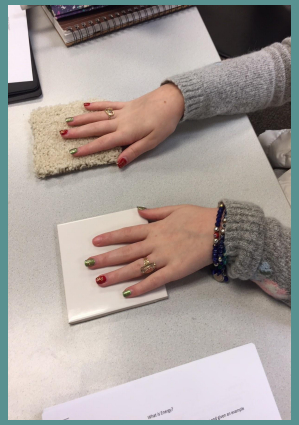


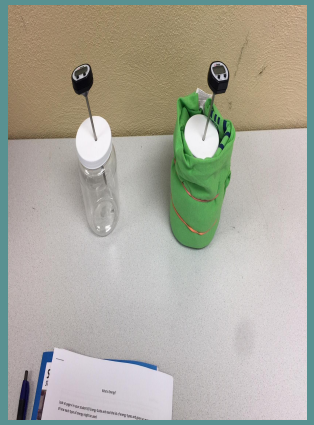


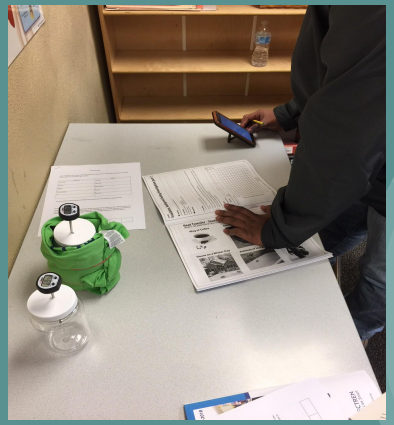
Energy Transfer

Students were given the example of a flashlight. Then they were given various items to demonstrate energy transfer i.e. pencil sharpener, toy, and cell phone screen.







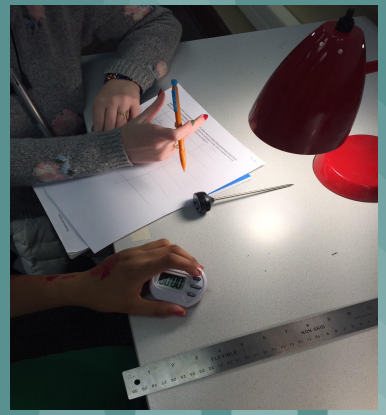


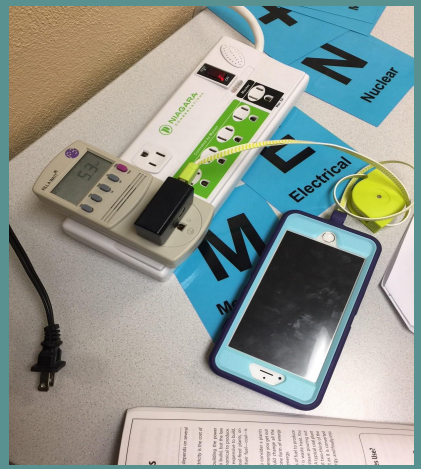
Insulation Station

Students were amazed at the difference in what objects felt in relation to temperature. Through the lab station students understood the value of insulation and conservation of energy in order to help reduce loss of heat/AC when it is related to a properly insulated home.

Light Bulb Investigation

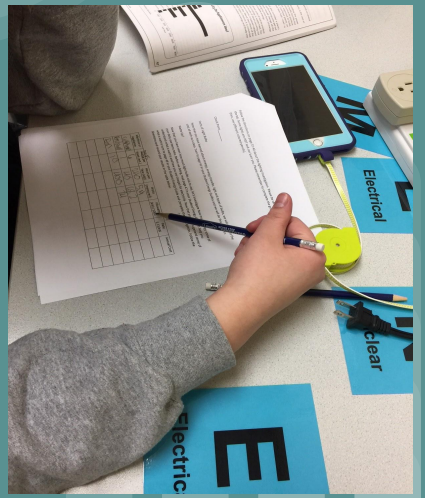
Students were shocked at the difference in heat created by the bulbs. Later students calculated the cost savings of the different bulbs.





Watts Up?

Students calculated watts of different electrical objects. Students were extremely interested in the watt consumption of their cell phone's. Students did compare apple v.s. Android based phones.



Conclusion

Students now have a better understanding of energy and its applications in their homes. Students are now better prepared to help conserve energy by reducing the heat/AC settings, and replacing light bulbs with more efficient ones.
* Student's faces were not photographed due to district mandates.