Student Sample 3

1. Plan your investigation. Our investigation question is: Are there any times of the day that show high energy?

2. Our prediction is... that the times of day where it proves to use a lot of energy could be at 7 A.M. when people wake up and get ready, and around 6 P.M., where families return home and begin to cook dinner.

3. Collect Data: PowerMeter Data from: N.R. Gee (March 6th-March 31st). It is hourly from 7 A.M. to at least 6 A.M. to 12 P.M. and from 6 P.M. to 12
A.M.

4. Creating data display: The data displays different hours where the energy rises and falls. The type of display that would show the data the best would probably be a bar graph to represent all parts of the day, breaking it down to see individual hours.

5. Analyzing Data: Generally, there are points in the day that have certain sparks of energy, which was our main goal to find an answer to. From 12 P.M. to 6 P.M., there was minimal energy used. This is probably because people are out of the house between these times more than any other time of the day, at school, work, or running errands. Between 6 A.M. and 12 P.M most energy is used, specifically between 6 and 7 A.M.

6. Our Conclusion is...that our prediction was correct, because people do use more energy between the hours from 6 A.M. to 7 A.M. and 6 P.M. to 7 P.M. This is because people are getting ready for the day in the morning, mainly between 6 A.M. and 7 A.M. Showering, making breakfast, hair straighteners/curlers all may spark the energy use in the morning. From 6 P.M. to 7 P.M., families are returning home from work, or making dinner. This causes yet another spark in energy use.