

Home Energy Usage

Question

How much energy does your family use on an average day? In order to analyze how much energy your family uses, you need to be aware of all the energy consuming activities going on in your home. Each hour, record the energy consuming devices in use in your home. Encourage family members to write down their activities on the log, too. Use additional paper as needed. Don't forget to include devices that run automatically, such as a refrigerator or air conditioner.

24 Hour Log Sheet

Home Energy Usage Date:	
12:00am	12:00pm
1:00am	1:00pm
2:00am	2:00pm
3:00am	3:00pm
4:00am	4:00pm
5:00am	5:00pm
6:00am	6:00pm
7:00am	7:00pm
8:00am	8:00pm
9:00am	9:00pm
10:00am	10:00pm
11:00am	11:00pm

Analyzing My Energy Usage

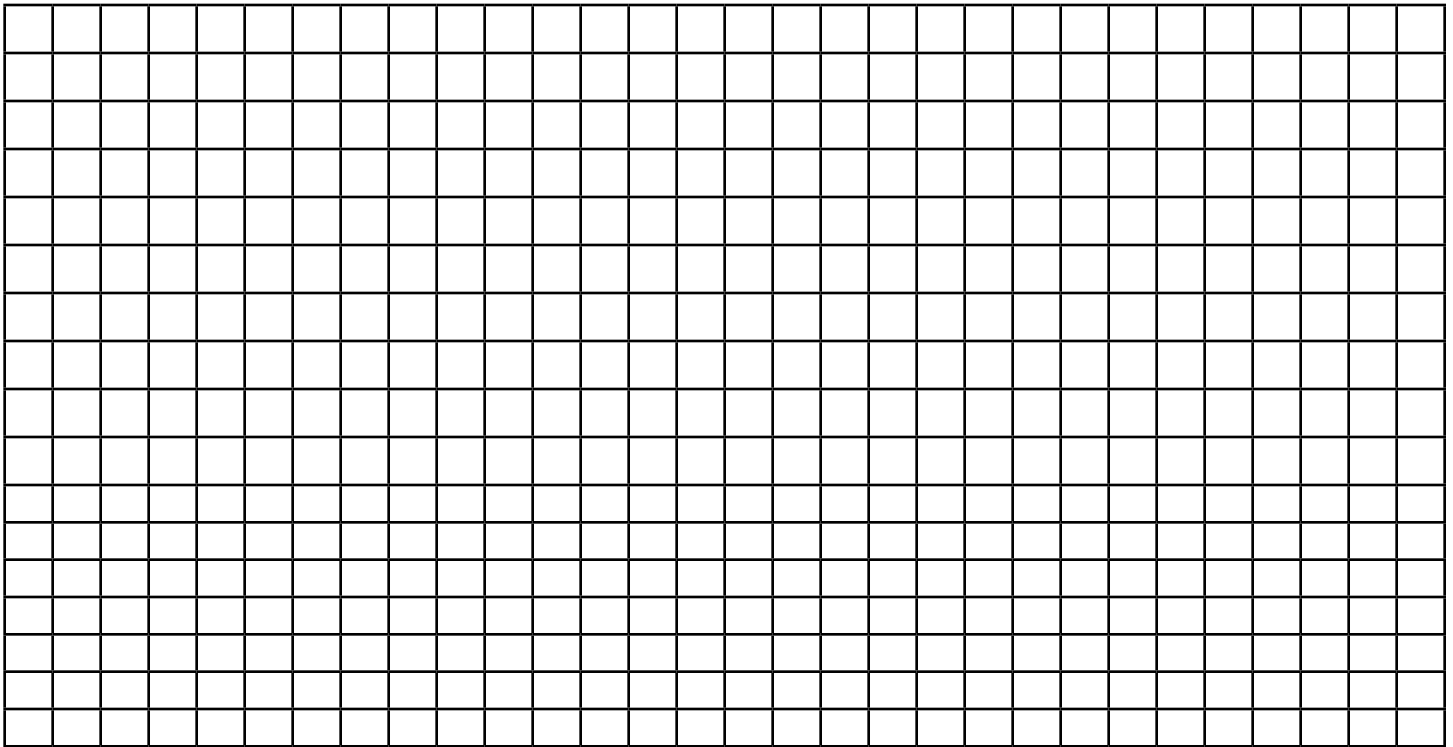
Question

How does your family use energy?

Procedure

1. Log into your family's electric utility account and review the different graphs of your family's energy use.
2. Display energy usage by day. Calculate and record the number of kWh used each hour next to the corresponding time on the *Home Energy Usage* log.
3. Draw the energy usage by day line graph in the space below. Remember to label your graph and insert the date.
4. On your graph, identify and label any areas of high energy use, extremely high energy use, or very low energy use.
5. Refer to your notes on the 24 hour log to identify what was happening in your home during these times. Which appliances were running? What activities were taking place? On the graph, write in brief notes about what was happening during these time periods.

Graph



Conclusions

1. Explain how the utility meter data and the information on your log correlate to create a picture of your family's home energy usage.
2. Did the weather have any effect on the amount of energy your family used during the 24 hours? How?
3. What did you learn about your family's energy use habits during your observation and evaluation?