

Many people are unsure as to how much power is used in their homes on a daily basis, and how much this energy costs. In this activity, you will be analyzing how much energy you and your family uses in a given day, and, using the rate at which your household pays the power company per kiloWatt-hour (kWh), determine how much this costs.

For a quick example of the amount of energy your household uses, visit:

<https://c03.apogee.net/mvc/home/hes/profile?utilityname=gapower>

**Procedure:**

To calculate your energy usage in more detail, in the chart below, complete the electrical appliances that are used in your home, their power rating (you might need to do some research!) and estimate the amount of time each appliance is used. This should include anything that uses electricity that plugs into the wall outlets, including lights, ceiling fans, air conditioning/heater, and kitchen appliances!

Rate your household pays per kWh: \_\_\_\_\_

Appliance	Power Rating (W)	Time per Day (hr)	Energy Used (kWh)	Cost (\$)

**Questions to consider:**

1. Which appliance had the greatest power rating? Did this surprise you?

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2. Which appliance, or appliances, are used the most time each day?

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3. Which appliance used the most electrical energy each day?

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4. Were your answers to questions 1 and 3 the same? If not, explain why.

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5. What is the total cost of the electricity used in one day in your home? How much will the bill be for 30 days of electricity?

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6. List three ways you could decrease the energy usage in your home.

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