

Chapter 6

Use with Section 2

ENRICHMENT

● Electric Current

How much electricity do you use?

Janet and Jonas are working on a budget. To plan on costs for electricity, they gathered information about how much energy their appliances use in a year. The information they used is listed in the table. Then they investigated the electric power supplier to learn more about costs. The chart below lists Janet and Jonas's common household appliances and how much electricity they use in one year. The electric company bills people for the amount of electricity they use, based on a unit called the kilowatt-hour. A kilowatt-hour equals the amount of energy produced by one kilowatt of power in one hour.

Appliance	Kilowatt-hours used per year
Dishwasher	363
Microwave oven	190
Toaster	39
Washing machine	103
Clothes drier	933
Vacuum cleaner	46
Hair dryer	14
Color television	440

Imagine that the electric company charges \$0.13 for a kilowatt-hour. Calculate how much each of these appliances would cost Janet and Jonas per month.

- Doing the laundry _____
- Using the microwave oven _____
- Vacuuming the house _____
- Watching television _____
- Running the dishwasher _____
- Find out how much electricity costs in your area by checking a recent bill or by calling your electric company. Then calculate your family's yearly cost for each of the items above.
