

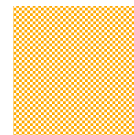


## Energy Fun Facts

- Americans have bought 1 billion EnergyStar products. Last year, this had the same effect as taking 18 million cars off the road.
- Appliances account for about 20% of your household's energy consumption, with refrigerators and clothes dryers at the top of the consumption list.
- About 80% to 85% of the energy used for washing clothes is for heating the water.
- Halogen lamps get very hot and can be fire hazards. Use compact fluorescent bulbs in your halogen lamp. They are safer and use much less energy.



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Address Correction Required



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## Energy in Our Home

Ms. Andrade & Miss  
Yates



# The Energy We Use

In our house we use many appliances that use energy. Here is a list of the ten appliances we use the most, and how much energy (wattage) they use.

- Dishwasher = 2400
- Microwave oven = 750
- Laptop = 50
- Refrigerator = 725
- Television 36" = 133
- Clothes washer = 350
- Clothes dryer = 1800
- Coffee maker = 900
- Clock radio = 10
- Vacuum cleaner = 1000

To find out how many Kilowatt - hours (kWh) we use each appliance, we need to use the following formula:

$$\frac{\text{Wattage} \times \text{Hours Used Per Day}}{1000}$$

## How Much Does it Cost?

We can figure out how much it costs us to run each appliance for the whole year using this formula:

$$\begin{aligned} & \# \text{ of kWhs} \times 8.5 \text{ cents/kWh} \\ & = \$ \text{ for one year of electricity} \end{aligned}$$

If our electric company charges more or less than 8.5 cents per kWh, we should use that number instead.

## My Estimates

Based on the energy audit that I did at our house, I think it will cost us this much to run our top ten appliances this year:

Appliance	Hrs/Day	/1000	X8.5¢
Dishwasher	1	2.4	\$2.04
Microwave	.5	.38	\$3.23
Laptop	4	.2	\$1.70
Refrigerator	8*	5.8	\$49.30
Television	8	1.06	\$9.01
Washer	.5	.18	\$1.53
Dryer	.5	.9	\$7.65
Coffee Pot	1	.9	\$7.65
Clock Radio	24	.24	\$2.04
Vacuum	.25	.25	\$2.13
Total			\$86.28

\*Refrigerators cycle on and off, so we divide the number of hours by 3

## Ways to Reduce Our Energy Use

- Replace the 5 light bulbs that we use the most with more energy efficient light bulbs.
- Unplug TVs, VCRs, cable boxes, DVD and CD players, cassette decks, cordless phones, burglar alarms, and microwaves when not in use. They use 5% of our total electricity when they aren't even turned on!
- When you buy a new appliance, look for the EnergyStar brand. They meet energy guidelines published by the Environmental Protection Agency.

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