

Calculating Energy Consumption

Listed below are some typical household appliances. Think of your family's typical household usage per day, and calculate the energy used and the cost to run each appliance over the course of a year. Calculate the annual cost using the rate of \$0.0667 per kWh.

Appliance	Power (watts)	Power (kilowatts) $W \div 1000$	Average use (hours per day)	Daily energy consumption (kWh) kW x hours per day	Annual energy consumption (kWh) x 365	Annual cost (\$ per year) x \$0.0667
Vacuum cleaner	1,600					
Hair dryer	1,200					
Computer	120					
Microwave	1,500					
Toaster oven	1,100					
Washing machine	500					
Clothes dryer	5,000					
Dishwasher	1,800					
Freezer	340					
Compact fluorescent light bulb	14					
Flat screen TV	120					

COST COMPARISON OF APPLIANCES

List the appliances along the horizontal (x) axis in the graph below. Then plot the cost to run each appliance for one year along the vertical (y) axis. Draw a bar graph to compare the cost of each appliance. Remember to label your axes!

