## Measuring electricity use key:

## Worksheet Answer Key:

Term	Definition	Formula			
Energy	The ability to do work	energy = power x time			
Watt	A unit of electrical power. The rate	e 1 watt = 1 joule/second			
	at which an appliance or device				
	uses power				
Power	The rate at which energy is	power = energy/time			
	transformed or the rate at which				
	work is done				
Kilowatt	A measure of the amount of energ	measure of the amount of energy1 kW = 1,000 watts			
	used over time that indicates how				
	fast you are using energy				
Kilowatt-hour	The amount of energy used when	100-watt light bulb x 10			
	an appliance or device consumes 1 hours of use = 1 kWh				

Appliances and products	Power (watts)	Average use (hours per day)	Annual energy usage (kWh)	Annual cost (\$ per year)
Vacuum cleaner	1,100	0.1	40.2 kWh	\$3.33
Hair dryer	1,200	O.25	109.5 kWh	\$9.08
Computer	120	4.0	175.2 kWh	\$14.52
Microwave	900	1.0	328.5 kWh	\$27.23
Clothes dryer	4,000	2.0	2,920 kWh	\$242.07
Incandescent light	60	3.0	65.7 kWh	\$5.45

bulb				
Compact	14	3.0	15.33 kWh	\$1.27
fluorescent light				
bulb				
LED light bulb	8	3.0	8.76 kWh	\$0.73
Flat-screen TV	200	5.0	365 kWh	\$30.26