

PLUG LOAD WORKSHEET



Instructions:

Calculate how much energy is used by an appliance (the plug load) for the whole year. How much will it cost? Use the [Energy Star Product Finder](#) to determine the plug load for a fridge or freezer. Alternatively you can measure how many watts (W) are consumed by the appliance using an energy meter. When using an energy meter, it is important to ask an adult if you need help. The energy meter can be set to measure energy use over time. Once the energy consumption has been measured for one hour, the kilowatt-hours used for a year can be calculated. Use the steps below to work out how many hours per year the appliance consumes electricity. Finally, you can find out the total annual cost of operating the appliance using the electricity rate in Nova Scotia: \$0.15063/kWh.

Appliance type & location	Owner Name & Phone Number	Energy consumed per hour (W)	Hours in use per day (h/day)	Hours in use per year (h)	Total energy consumption per year (kWh)	Annual cost (\$)
		Measure using an energy meter or look up.	Estimate if needed. A fridge would be 24 hours/day.	A fridge operates 24 hours/day X 365 days per year.	Watts X hours per year/1000W/kW	Total kWh X \$0.15063/kWh

