

CLASSROOM ENERGY METER ACTIVITY



1. Find items that use electricity in your classroom.
2. Use your energy meter to measure the energy use in **watts** and use this sheet for tracking. Calculate the **power** used in kilowatt-hours (kWh). To do this, multiply the watts by 1 hour and then divide by 1000 watts per kilowatt.
3. Estimate how many hours you use the item during a month. For example, lights are on for an average of 5 hours per day.
4. Calculate **monthly power use**. To do this, by multiply power use (kWh) by the estimated hours this item is used per month.
5. Calculate the item's power cost per month. To do this, multiply power (kWh) by the standard Nova Scotia residential rate: \$0.15/kWh.

Appliance/electronic item	Energy use (W)	Power use (kWh)	Estimated hours per month item is on (30 days)	Monthly power use	Monthly cost (rate: \$0.15/kWh)
<i>Example: MacBook Pro Charger</i>	85 W	$85W \times 1 h / 1000 W/kW = 0.085 kWh$	$5 h \text{ per day} \times 30 \text{ days} = 150 h/\text{month}$	$0.085 kWh \times 150 h = 12.75 kWh/\text{month}$	$12.75 kWh \times \$0.15/kWh = \$1.91/\text{month}$
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