**Classroom Audit Worksheet**

**Hair Dryer Example**

- When the hair dryer is turned on it uses \( A \) ______ watts.
- We use the hair dryer \( B \) ______ minutes every week.
- This means the hair dryer is on \( C \)______ hours every year \( (B \times 52 \text{ weeks})/60 \text{ minutes} \).
- When the hair dryer is on it uses \( D \)______ kWh/year \( (A \times C)/1000 \).
- It costs \( E \) $ ______ to use the hair dryer every year \( (D \times 0.12) \) [use $0.12 cents per kWh].

Complete the following chart with using the hair dryer example:

- Identify other electric devices in the classroom and use the watt meter to determine the wattage.
- With a partner or in groups determine a reasonable minutes/week value.
- Complete the following chart for the other identified classroom devices.

**Classroom Electric Devices (Plug Load) - Cost to Operate**

<table>
<thead>
<tr>
<th>Device</th>
<th>( A ) Watts while on</th>
<th>( B ) Minutes on/week</th>
<th>( C ) Hours on/year</th>
<th>( D ) kWh/year ( (A \times C)/1000 )</th>
<th>( E ) Cost/year ( D \times 0.12 )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hair Dryer</td>
<td></td>
<td></td>
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<td></td>
<td>$</td>
</tr>
</tbody>
</table>
Electricity – A type of energy that can build up in one place or flow from one place to another. Electrical power is measured in watts, or kilo-watts (kW).

Electrical energy - Using electrical power to do work, over time. Electrical energy is measured in kilowatt-hours (kWh).

Energy audit – A survey and analysis of how a building or device uses energy.

Energy conservation – Using less energy with the same devices or equipment, typically by using them less or turning them off when not in use.

Energy efficiency – Using less energy by replacing old devices with newer equipment or technology.

Kilowatt-hour – Using one thousand watts (1 kW) of electrical power for one hour. Electric utilities bill their customers for every kWh used.

Plug load – The electrical energy used by things that are plugged into the wall.

Watt meter – A tool for measuring how much electrical power (watts) anything plugged into the wall is using.