Kill-a-Watt Meter Individual Prediction Sheet

Enter prediction for each appliance in *rated* row of this table.

If there are multiple settings tested for the appliance, you can use multiple rows.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Appliance name** | **Setting / comments** | **Power or current specified on appliance** | **Power (W)****(measured)** | **Estimated time used daily (h)** | **Energy consumed daily (kWh)\*** |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |

\* energy (kWh) = power (W)/1000 X time (h)

Kill-a-Watt Meter Team Prediction Sheet 

Enter prediction for each appliance in *rated* row of this table.

If there are multiple settings tested for the appliance, you can use multiple rows.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Appliance name** | **Setting / comments** | **Power or current specified on appliance** | **Power (W)****(measured)** | **Estimated time used daily (h)** | **Energy consumed daily (kWh)\*** |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |

\* energy (kWh) = power (W)/1000 X time (h)

Kill-a-Watt Meter Individual Data Sheet

Enter information for each appliance in *rated* row of this table.

If there are multiple settings tested for the appliance, you can use multiple rows.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Appliance name** | **Setting / comments** | **Power or current specified on appliance** | **Power (W)****(measured)** | **Estimated time used daily (h)** | **Energy consumed daily (kWh)\*** |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |

\* energy (kWh) = power (W)/1000 X time (h)

Kill-a-Watt Meter Team Data Sheet

Enter information for each appliance in *rated* row of this table.

If there are multiple settings tested for the appliance, you can use multiple rows.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Appliance name** | **Setting / comments** | **Power or current specified on appliance** | **Power (W)****(measured)** | **Estimated time used daily (h)** | **Energy consumed daily (kWh)\*** |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |

\* energy (kWh) = power (W)/1000 X time (h)

Discussion questions- (formative assessment)

1. Which of the appliances had a known power rating or current (amps)?
How did your measured power compare with the power specified on the appliance? Discuss any differences. (Note – if current (amps) was specified, power can be calculated as Power = volts X amps; the voltage of standard power outlets is 120 V)
2. Which appliance did you expect to use the most ***power***? Why? Did you find this to be true?
3. Of the appliances tested, which one did you calculate to use the most ***energy*** in your home each day? Is this what you expected? Why?
4. Based on the measurements made in this activity, Can you suggest a way that you can conserve energy in your home?