



## Appliance Survey

The purpose of this activity is to teach you how to calculate the energy consumption of various appliances around your home or school.

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|--|--|--|--|--|--|--|
| <b>1. Item Name</b><br><i>Description of light or appliance</i>  | <b>Light in kitchen</b><br><i>4, 60-watt bulbs</i>       | <b>Color television with remote</b>                          |  |  |  |  |
| <b>2. Watts</b><br><i># watts used when on</i>   | 240 watts<br><i>(4 bulbs x 60 watts)</i>                 | 250 watts  |  |  |  |  |
| <b>3. Hours / Day</b><br><i>Average of hours/day "on"</i>  | 2 hrs/day  | 4 hrs/day  |  |  |  |  |
| <b>4. Is it left on when no one is using it?</b>   | Yes  | Yes  |  |  |  |  |
| <b>5. Does it leak electricity?</b><br><i>See course for more information</i>  | No   | Yes  |  |  |  |  |
| <b>6. Leaking watts</b><br><i>(If leaks, estimate of wattage when off- see Leaking Watts Chart in course)</i>  | 0  | 4.3 watts  |  |  |  |  |
| <b>7. Time item is on in a month</b><br><i>Hours/Day (Row 3) x 30 days</i>   | 60 hrs<br><i>(2 hrs/day x 30 days)</i>                   | 120 hrs<br><i>(4 hrs x 30 days)</i>                          |  |  |  |  |
| <b>8. Time item is not on</b><br><i>(30 days x 24 hours) - time item is on (Row 7)</i>   | 660 hrs<br><i>(720 hrs - 60 hrs)</i>                     | 600 hrs<br><i>(720 hrs - 120 hrs)</i>                        |  |  |  |  |
| <b>9. Watt-Hours used when on</b><br><i>Watts (Row 2) x time item is on (Row 7)</i>  | 14,400 watt-hrs<br><i>(240 watts x 60 hrs)</i>           | 30,000 watt-hrs<br><i>(250 watts x 120 hrs)</i>              |  |  |  |  |
| <b>10. Watt-Hours used when off</b><br><i>Leaking watts (Row 6) x time item is not on (Row 8)</i>  | 0 watt-hrs   | 2,580 watt-hrs<br><i>(4.3 watts x 600 hrs)</i>               |  |  |  |  |
| <b>11. Total Watt-Hours used in a month</b><br><i>Watts used when on (Row 9) + Watts used when off (Row 10)</i>  | 14,400 watt-hrs<br><i>(14,400 watt-hrs + 0 watt-hrs)</i> | 32,580 watt-hrs<br><i>(30,000 watt-hrs + 2,580 watt-hrs)</i> |  |  |  |  |
| <b>12. Total kilowatt hours for month</b><br><i>Watt-hours (Row 11) divided by 1,000 watts</i>   | 14.4 kwh/month<br><i>(14,400 watt-hrs ÷ 1,000 watts)</i> | 32.6 kwh/month<br><i>(32,580 watt-hrs ÷ 1,000 watts)</i>     |  |  |  |  |
| <b>13. Rank of item's electricity use</b><br><i>(Rank the item using the most electricity #1, the second #2, etc.)</i>   |  |  |  |  |  |  |
| <b>14. Item's relative importance</b><br><i>Use a scale of 1 to 5 where<br/>5= Must have this item;<br/>3= Item is somewhat important;<br/>1= Don't need item.</i> |  |  |  |  |  |  |

|  |   |                                     |
|--|---|-------------------------------------|
| <b>15. Take Action</b><br>Using what you learned from this survey, list two actions you will take in your home to reduce energy consumption. |   |                                     |
| Replace inefficient lighting with more efficient options such as CFL or LED light bulbs  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No | Estimated # of bulbs ____           |
| Insulate water heater  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                     |
| Set water heater temperature to 120 degrees Fahrenheit   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                     |
| Replace inefficient appliances with ENERGY STAR® appliances  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No | What appliance(s):                  |
| Air dry laundry more often   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No | About how many times per week: ____ |
| Use major appliances (washer, dryer, dishwasher) during off-peak hours (typically 9 PM to 10 AM Monday-Friday, holidays, and weekends)       | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                     |
| Use power strips on electronics with multiple components (computers/TV/DVD/game systems/etc.)  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                     |
| Turn thermostat to 68 degrees Fahrenheit in winter and 78 degrees Fahrenheit in summer   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                     |
| Change furnace filter  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                     |
| Unplug electronics (cell phones, laptops, etc.) when they are fully charged.   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                     |
| Take shorter showers (<5 min.) to save water and energy to heat the water.   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                     |
| Other?   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No | Explain:                            |