



## 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.

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

<b>15. Take Action</b> 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 <input type="checkbox"/> No	Estimated # of bulbs____
Insulate water heater	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Set water heater temperature to 120 degrees Fahrenheit	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Replace inefficient appliances with ENERGY STAR® appliances	<input type="checkbox"/> Yes <input type="checkbox"/> No	What appliance(s):
Air dry laundry more often	<input type="checkbox"/> Yes <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 <input type="checkbox"/> No	
Use power strips on electronics with multiple components (computers/TV/DVD/game systems/etc.)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Turn thermostat to 68 degrees Fahrenheit in winter and 78 degrees Fahrenheit in summer	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Change furnace filter	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Unplug electronics (cell phones, laptops, etc.) when they are fully charged.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Take shorter showers (<5 min.) to save water and energy to heat the water.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Other?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Explain: