Wisconsin K-12 Energy Education Program (KEEP)
College of Natural Resources
University of Wisconsin-Stevens Point

Appliance Survey

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

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

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