

Name: _____

Date: _____

BLM B-1

Power Rating Conversions

It is difficult to compare a power rating in watts (W) to an EnerGuide rating in kilowatt hours (kWh). This worksheet will help you calculate the number of kilowatt hours (kWh) a device uses per year. Use the table to calculate power ratings in kWh per year for devices in your school.

A	B	C	D	E	F
Electric Device	Power Rating (W)	Power (kW) (Column B ÷ 1000)	Hours Used per Day	Energy Used per Day (kWh) (Column C × Column D)	Energy Used per Year (kWh) (Column E × 365 days)
Lamp	60	$\frac{60}{1000} = 0.06$	2.5	$0.06 \times 2.5 = 0.15$	$0.15 \times 365 = 54.75$
a)					
b)					
c)					
d)					
e)					
f)					