

Classroom Energy Estimation Guide

This guide serves as a one-stop-shop to aid you in estimating your classroom's power consumption. We have compiled a list of common technology and appliances used in a classroom setting. For other common appliances, take a look at [this website](#). A common measurement of energy usage is kWh, which depicts the kilowatts of energy used per hour. To convert Watts to kWh, multiply Watts by hours used and then divide by 1000.

$$\frac{\text{Watts} \times \text{hours}}{1000}$$

Appliance	Estimated Power Consumption (W)
Overhead light (fluorescent)	36.5
Computer charging cart (at max)	1440
Aquarium heating lamp	175
Aquarium filter	14
Aquarium pump	35
Aquarium light	30
Smart board	175
Projector	225
Heating	2100
Cooling	3500
Phone/iPad charger	25
Computer monitor	27.5
Laptop charger	95
Speaker	35
Window AC unit	950
Wired speaker	45
Box fan	75
Incandescent light bulb	60
LED light bulb	10
Pencil sharpener	100
Mini fridge	90
Central AC	3500
Printer	400
TV	125
Fan	60