NAME
CLASS/DATE
Classroom Audit Worksheet DVD Player Example
 Energy ON When the DVD Player is turned on it uses (A) watts. We use the DVD player (B) minutes every week. This means the DVD player is on (C)hours every year (B x 52 weeks)/60 minutes. When the DVD is on it uses (D) kWh/year (A x C)/1000. It costs (E) \$ to use the DVD player every year (D x \$0.12) [Electrcity costs about \$0.12 cents per kWh].
 Energy OFF When the DVD is off it uses (F) watts (vampire load). Hours per year the DVD is not in use (G) (8760 - C) [there are 8760 hours in one year]. When he DVD player is off it uses (H) kWh/year (F x G)/1,000. The DVD vampire load costs us (I) \$ every year (H x \$0 .12).
 Complete the following chart using the DVD player example: Identify other electric devices in the classroom and use the watt meter to determine the wattage. Determine a reasonable minutes/week value with a partner/group.

Classroom Electric Devices (Vampire Load) – Cost to Operate

Complete the following chart for the other identified classroom devices.

Device	(A) Watts on	(B) Minutes on/week	(C) Hours on/year (B x 52)/60	(D) kWh/year on (A x C)/1000	(E) Cost/year on D x \$0.12	(F) Watts off (Vampire Load)	(G) Hours off (8760-C)	(H) Off kWh [F X G)/1000]	(I) Cost Off (Vampire Load) (H x \$0.12)
DVD Player									\$



Vocabulary

Electricity – A type of energy that can build up in one place or flow from one place to another. Electrical power is measured in watts, or kilo-watts (kW).

Electrical energy - Using electrical power to do work, over time. Electrical energy is measured in kilowatt-hours (kWh).

Energy audit – A survey and analysis of how a home or classroom uses energy.

Energy conservation – Using less energy with the same devices or equipment, typically by using them less or turning them off when not in use.

Energy efficiency – Using less energy by replacing old devices with newer equipment or technology.

Kilowatt-hour – Using one thousand watts (1 kW) of electrical power for one hour. Electric utilities bill their customers for every kWh used.

Plug load – The electrical energy used by things that are plugged into an outlet.

Vampire load – The electricity used by device when you are not even using it.

Watt meter – A tool for measuring how much electrical power (watts) anything plugged into an outlet is using.

