



Name:

Date:

Student Exploration: Household Energy Usage

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: current, energy consumption, fluorescent lamp, halogen lamp, incandescent lamp, lumen, usage, voltage, wattage

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Think about all the electrical appliances in your house. Which ones do you think use the most energy per second?

Some of the appliances in my house that I think use the most energy per second are: air fryer, microwave, fridge, and dishwasher.

2. Now think about how much each of these appliances is used. Which appliances do you think use the most energy each month?

Out of the appliances listed above, I think that the microwave and fridge would use the most energy per month.

Gizmo Warm-up

The *Household Energy Usage* Gizmo allows you to compare the energy used by different appliances in the home. On the **BEDROOM** tab, click the laptop computer.

1. **Voltage** (V) is a measure of how much electrical energy is in a circuit. Most household circuits operate at 120 volts (120 V).

Is this true of the computer?

Yes, the computer has a maximum voltage of 120.



2. **Current** (I) is a measure of the amount of electrical charge that passes through the circuit each second. Current is measured in amperes (A).

How much current does the computer use?

0.9 Current drawn (A)

3. **Wattage** (W) is the energy that is used by a device each second. It is equal to current multiplied by voltage ($W = I \times V$). Wattage is measured in watts (W) or kilowatts (kW).

A. What is the wattage of the computer?

108 Watts or 0.108 kilowatts

Answer Key To Student Exploration Household Energy Usage

L Reisser



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