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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?

Oven, Microwave, Hair Dryer

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

A/C and Heating system

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

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?

.9 Amps

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 W

B. Click on the other objects. Which has the highest wattage?

Blowdryer (1,584 W)

Household Energy Usage Gizmo Answer Key

Lewis Vaughn



Household Energy Usage Gizmo Answer Key :

Sif Physics Ol Tb Wan Yong Loo,2007 **New Scientist** ,2007 **Chilton's Guide to Home Energy Savings** Lewis Vaughn,1982 **New Scientist and Science Journal** ,2007 *Patients First* United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Health,2001 *PC Mag* ,2004 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology **Kiplinger's Personal Finance** ,1997-11 The most trustworthy source of information available today on savings and investments taxes money management home ownership and many other personal finance topics **Electronics Now** ,1998 New York Magazine ,1991-03-11 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea **Proceedings** ,1974
Proceedings International Technical Communications Conference,1974 **PC Magazine** ,2004 Press Summary - Illinois Information Service Illinois Information Service,1987 **Survey of Household Energy Use, 2007** Glen Ewaschuk,2010 **Questionnaire** ,2002 *The Household Energy Game* Thomas W. Smith,John Jenkins,1974
Household Energy Efficiency ,2012 **Assessing Consumer Willingness to Reduce Household Energy Consumption** ,2012 Household Energy Conservation System Study. Final Report ,1978

Unveiling the Magic of Words: A Review of "**Household Energy Usage Gizmo Answer Key** "

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Household Energy Usage Gizmo Answer Key** ," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

https://db1.greenfirefarms.com/results/publication/fetch.php/How_To_Use_Matcha_Health_Benefits_For_Creators.pdf

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