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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)

Answers For Household Energy Usage Gizmo

BM King



Answers For Household Energy Usage Gizmo:

Sif Physics Ol Tb Wan Yong Loo,2007 **Seven Rules for Sustainable Communities** Patrick M. Condon,2012-02-13 Questions of how the design of cities can respond to the challenge of climate change dominate the thoughts of urban planners and designers across the U S and Canada With admirable clarity Patrick Condon responds to these questions He addresses transportation housing equity job distribution economic development and ecological systems issues and synthesizes his knowledge and research into a simple to understand set of urban design recommendations No other book so clearly connects the form of our cities to their ecological economic and social consequences No other book takes on this breadth of complex and contentious issues and distills them down to such convincing and practical solutions Chilton's Guide to Home Energy Savings Lewis Vaughn,1982 **New Scientist** ,2007 Always-On Enterprise Information Systems for Business Continuance: Technologies for Reliable and Scalable Operations Bajgoric, Nijaz,2009-08-31 This book provides chapters describing in more detail the structure of information systems pertaining to enabling technologies aspects of their implementations IT IS governing risk management disaster management interrelated manufacturing and supply chain strategies and new IT paradigms Provided by publisher **Solar Energy Project** United States. Department of Energy. Office of Conservation and Solar Applications,1979 **Energy and water development appropriations for 1989** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1988 New Scientist and Science Journal ,2007 *Energy and Water Development Appropriations for 1989: Corps of Engineers* United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1988 **The English Marvel Workbook** □ **6** Brinda Dutta, The English Marvel is a multiskill based series in English that adheres to theNational Curriculum Framework and the advances made in ELT pedagogical principles Having a learner centred approach the series develops essential communication skills and integrates the four language skills of Reading Writing Listening and Speaking

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