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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

TD Snyder



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
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Table of Contents Answers For Household Energy Usage Gizmo

1. Understanding the eBook Answers For Household Energy Usage Gizmo
 - The Rise of Digital Reading Answers For Household Energy Usage Gizmo
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Household Energy Usage Gizmo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Household Energy Usage Gizmo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Household Energy Usage Gizmo
 - Personalized Recommendations
 - Answers For Household Energy Usage Gizmo User Reviews and Ratings
 - Answers For Household Energy Usage Gizmo and Bestseller Lists
5. Accessing Answers For Household Energy Usage Gizmo Free and Paid eBooks
 - Answers For Household Energy Usage Gizmo Public Domain eBooks
 - Answers For Household Energy Usage Gizmo eBook Subscription Services
 - Answers For Household Energy Usage Gizmo Budget-Friendly Options
6. Navigating Answers For Household Energy Usage Gizmo eBook Formats

- ePub, PDF, MOBI, and More
 - Answers For Household Energy Usage Gizmo Compatibility with Devices
 - Answers For Household Energy Usage Gizmo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Household Energy Usage Gizmo
 - Highlighting and Note-Taking Answers For Household Energy Usage Gizmo
 - Interactive Elements Answers For Household Energy Usage Gizmo
 8. Staying Engaged with Answers For Household Energy Usage Gizmo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Household Energy Usage Gizmo
 9. Balancing eBooks and Physical Books Answers For Household Energy Usage Gizmo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Household Energy Usage Gizmo
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Answers For Household Energy Usage Gizmo
 - Setting Reading Goals Answers For Household Energy Usage Gizmo
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Answers For Household Energy Usage Gizmo
 - Fact-Checking eBook Content of Answers For Household Energy Usage Gizmo
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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