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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

Hongru Du

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answers For Household Energy Usage Gizmo:

Sif Physics Ol Th 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

Alternative Long-range Energy Strategies United States. Congress. Senate. Select Committee on Small Business,1977

New Scientist and Science Journal ,2007 *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 *Green Technologies: Concepts, Methodologies, Tools and Applications* Management Association, Information Resources,2011-03-31 Green Technologies Concepts Methodologies Tools and Applications assembles the most up to date collection of research results and recent discoveries in environmental and green technology This comprehensive anthology covers a wide range of topics i Old-House Journal ,1980-09 Old House Journal is the original magazine devoted to restoring and preserving old houses For more than 35 years our mission has been to help old house owners repair restore update and decorate buildings of every age and architectural style Each issue explores hands on restoration techniques practical architectural guidelines historical overviews and homeowner stories all in a trusted authoritative voice **Energy and Water Development Appropriations for 1989: Corps of Engineers** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1988

Home Energy Digest, Wood Burning Quarterly ,1981 Kiplinger's Personal Finance ,1981-08 The most trustworthy source of information available today on savings and investments taxes money management home ownership and

many other personal finance topics **Telecommunication Policy Act** United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Telecommunications and Finance,1990 *Hydrogen & Fuel Cell Letter* ,1998

Corps of Engineers: New England division United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1988 Looking Up, Looking Down Geoff Woods,2017-01-10 I am a fifty year old married father of two who has spent much of his life when not interrupted by studying or work outside either playing sport or walking in the hills Geoff Woods first book Looking Up Looking Down explores his adventures in the British hills over the past forty years Starting as a child on Bodmin Moor in Cornwall Geoff casts a wry eye back on his escapades in some of the more remote parts of Britain Usually on foot but occasionally on a bike these without fail involve fantastic scenery remarkable weather and a trip to the pub with his mates The central theme of the book is Geoff s long term ambition to climb the Munros Scotland s 3000 foot mountains He reflects on some of his more memorable trips usually at Easter and on the friendships forged over a camping stove and a pint Although Looking Up Looking Down is not intended to be a guidebook to the British hills it is a great way for readers to explore iconic upland areas and hidden gems of our beautiful island It will appeal to readers who enjoy memoirs and laughing at someone else s expense as well as those who have an interest in outward bound type activities *National Energy Strategy* United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Energy and Power,1991

Answers For Household Energy Usage Gizmo Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Answers For Household Energy Usage Gizmo**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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