



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.

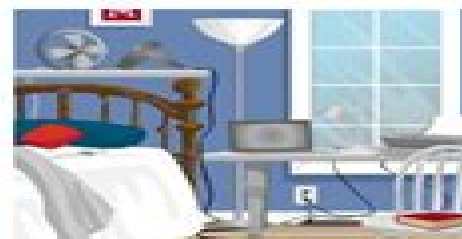
### **Gizmo Warm-up**

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

**Smithsonian Institution, National  
Academy of Engineering, National  
Science Resources Center of the  
National Academy of  
Sciences, Institute of Medicine**

## **Answer Key To Student Exploration Household Energy Usage:**

*Electrical Energy Use in the Home*, 1978      *Energy Conservation* Cathy Anderson, Jeri Hayes, Jean Nattkemper, 1997-04  
This module is one of six in the Environmental Action Program Energy Conservation Water Conservation Food Choices Waste Reduction Chemicals Choosing Wisely and Habitat and Diversity Each of the modules provides step by step instructions on how to investigate real world environmental issues and presents opportunities to learn and practice action skills in the context of these issues The program challenges students to actively contribute their ideas time and energy toward creating solutions at the local level in their schools homes and communities The program encourages cooperative learning and encourages students to learn and develop personal responsibility for environmental action The Teacher Resource Guide duplicates key material in the Student Edition with additional information and resources and blackline masters for all activity sheets      Sif Physics Ol Tb Wan Yong Loo, 2007      *Software Reviews on File*, 1985      **ENC Focus**, 2001      **Resources in Education**, 2000      *Handbook of Educational Psychology* Patricia A. Alexander, Philip H. Winne, 2006 Provides coverage of the field of educational psychology This book includes topics such as adult development self regulation changes in knowledge and beliefs and writing It is useful to scholars teacher educators practitioners policy makers and academic libraries It is also suitable for graduate level courses in educational psychology      **Exploring Space** Edward P. Ortleb, Richard Cadice, 1986-09-01 Color Overheads Included The exciting discoveries of recent space explorations are described in this book which deals with rockets space probes and space stations The scientific exploration of our solar system and beyond is described Each of the twelve teaching units in this book is introduced by a color transparency which emphasizes the basic concept of the unit and presents questions for discussion Reproducible student pages provide reinforcement and follow up activities The teaching guide offers descriptions of the basic concepts to be presented background information suggestions for enrichment activities and a complete answer key      Cells, Teacher's Guide,      Language Power: Grades 6-8 Level C Teacher's Guide Emily Wojdyla-Corbin, 2012-10-30      **Space Research**, 2003      **Complete IELTS Bands 5-6.5 Student's Book with Answers with CD-ROM** Guy Brook-Hart, Vanessa Jakeman, 2012-01-19 A course to prepare students for the IELTS test at an intermediate level B2 Combines contemporary classroom practice with topics aimed at young adults

**Innovative Teaching and Classroom Processes** Timo Ehmke, John Chi-Kin Lee, 2025-05-29 This volume delves into the evolving landscape of education by examining innovative teaching practices across two distinct educational systems The book is organized into five parts each offering a deep dive into how Germany and China are addressing key challenges in modern education such as digitalization the development of new skills for the future and managing diversity in classrooms Part I provides an overview of the contrasting educational perspectives between the two countries while Part II focuses on subject specific innovations in mathematics and science Part III extends this exploration to music foreign languages and social sciences showcasing how interdisciplinary approaches are enhancing teaching effectiveness Part IV addresses the critical

issue of diversity presenting strategies for inclusive education tailored to different student needs Finally Part V offers a synthesis of the challenges and future prospects for educational innovation in both Germany and China By contrasting Western and Chinese educational traditions the book highlights not only the differences but also the potential for cross cultural learning providing valuable insights for educators policymakers and researchers interested in global educational trends and innovations

**Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

**Ubiquitous and Pervasive Computing: Concepts, Methodologies, Tools, and Applications** Symonds, Judith, 2009-09-30 This publication covers the latest innovative research findings involved with the incorporation of

technologies into everyday aspects of life Provided by publisher *Multiplatform E-Learning Systems and Technologies: Mobile Devices for Ubiquitous ICT-Based Education* Goh, Tiong Thye, 2009-07-31 This book addresses technical challenges design frameworks and development experiences that integrate multiple mobile devices into a single multiplatform e learning systems Provided by publisher **Read and Succeed: Comprehension Level 6** Debra J. Housel, 2010-05-30 Students need high quality purposeful practice to improve reading comprehension Developed for students in grade 6 Read and Succeed Comprehension features high interest fiction and nonfiction passages that capture their interest and focused standards based activities that provide targeted practice opportunities This effective full color resource includes 65 passages skill practice pages answer key and a whiteboard compatible Teacher Resource CD 152pp Complete IELTS Bands 5-6.5 Students Pack Student's Book with Answers with CD-ROM and Class Audio CDs (2) Guy Brook-Hart, Vanessa Jakeman, 2012-01-19 This course is to prepare students for the IELTS test at an intermediate level B2 It is designed to introduce students to the critical thinking required for the IELTS and provide strategies and skills to maximise their score in all parts of the test *Read & Succeed Comprehension Level 6: Author's Purpose Passages and Questions* Debra J. Housel, 2014-01-01 Students need purposeful practice on previewing text to improve reading comprehension These sixth grade texts capture student interest with focused standards based activities that provide targeted practice opportunities 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

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