



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

**Cathy Anderson, Jeri Hayes, Jean
Nattkemper**



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 Software Reviews on File, 1985 **Resources in Education**, 2000 Sif Physics Ol Tb Wan Yong Loo, 2007 ENC Focus, 2001 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, *Space Research*, 2003 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 *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

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

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

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Research in Education ,1973

Tech Tally National Research Council,National Academy of Engineering,Committee on Assessing Technological Literacy,2006-07-27 In a broad sense technology is any modification of the natural world made to fulfill human needs or desires Although people tend to focus on the most recent technological inventions technology includes a myriad of devices and systems that profoundly affect everyone in modern society Technology is pervasive an informed citizenship needs to know what technology is how it works how it is created how it shapes our society and how society influences technological development This understanding depends in large part on an individual level of technological literacy Tech Tally Approaches to Assessing Technological Literacy determines the most viable approaches to assessing technological literacy for students teachers and out of school adults The book examines opportunities and obstacles to developing scientifically valid and broadly applicable assessment instruments for technological literacy in the three target populations The book offers findings and 12 related recommendations that address five critical areas instrument development research on learning computer based assessment methods framework development and public perceptions of technology This book will be of special interest to individuals and groups promoting technological literacy in the United States education and government policy makers in federal and state agencies as well as the education research community *Full-Color Science Games, Grades 1-2* Bridget Hoffman,2007-02 Hands on explorations full color games and graphing activities offer students opportunities for doing science in the disciplines of earth physical and life sciences *Modern Science and the Book of Genesis* James William Skehan,National Science Teachers Association,1986 Based on the premise that knowledge of evolutionary theory is essential for understanding the natural world this document was designed to assist science teachers and others as they consider the issues that influence the teaching of evolution The position is taken that there is no conflict between data and sound theories based on science and religious beliefs based on the Bible Information and perspectives are presented under the topic headings of 1 The Genesis of Genesis 2 Early Science Interprets Genesis 3 New Data 4 Creationism versus Science and 5 Two Kinds of Knowledge References are listed and the National Science Teacher Association s position statement on the Inclusion of Nonscience Tenets in Science Instruction is included ML

Whispering the Secrets of Language: An Emotional Quest through **Answer Key To Student Exploration Household Energy Usage**

In a digitally-driven world where screens reign great and immediate conversation drowns out the subtleties of language, the profound strategies and emotional nuances hidden within phrases often go unheard. Yet, nestled within the pages of **Answer Key To Student Exploration Household Energy Usage** a charming fictional value blinking with raw feelings, lies a fantastic journey waiting to be undertaken. Published by an experienced wordsmith, that wonderful opus encourages viewers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within ab muscles material of each word. Within the psychological depths of the poignant review, we will embark upon a honest exploration of the book is key styles, dissect its interesting writing fashion, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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