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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)

# Household Energy Usage Gizmo Answer Key

**Patrick M. Condon**

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.

## Household Energy Usage Gizmo Answer Key:

Sif Physics Ol Tb Wan Yong Loo,2007      **Chilton's Guide to Home Energy Savings** Lewis Vaughn,1982      **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      *Home Energy Digest, Wood Burning Quarterly* ,1981      Solar Energy Project United States. Department of Energy. Office of Conservation and Solar Applications,1979      **Alternative Long-range Energy Strategies** United States. Congress. Senate. Select Committee on Small Business,1977      **New Scientist** ,2007      **Energy and water development appropriations for 1989** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1988      **Energy and Water Development Appropriations for 1989: Corps of Engineers** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1988      *Predictive Analytics for Energy Efficiency and Energy Retailing* Konstantin Hopf,2019-07-15      **New Scientist and Science Journal** ,2007      **The Power of Sustainable Thinking** Bob Doppelt,2012-05-04 The future will be powered by sustainable thinking in business organizations governments and everyday life This revolutionary book tackles climate change sustainability and life success by starting with your mind It provides proven staged based methods for transforming thinking and behaviour beginning first with the reader s own cognitive patterns then moving to how individuals can motivate other people to change and finally to how teams and organizations can be motivated to change      **The Homeowner's Energy Guide** John Albert Murphy,1977      Animal Soul Contracts Tammy Billups,2020-04-07 A guide to discovering the spiritual agreements between our souls and those of our animal companions 2021 Coalition of Visionary Resources Gold Award Explains how animals have physical or behavioral issues to evolve their souls as well as help our soul s evolution and release past life karma Describes what happens energetically and spiritually with animals in the weeks before they transition and during their passing Includes practical instructions for identifying the different types of animal soul contracts and aligning with them to assist your shared evolutionary journey Animal lovers are extraordinary Despite awareness that we will probably outlive our beloved pets we are still drawn time and time again to the connection joy and unconditional love that come with sharing our lives homes and laps with animals Many of us feel something deeper than just companionship with our animal friends a heart to heart connection felt all the way to the soul level Revealing the higher purpose and soul mission behind our relationships with our animal companions Tammy Billups

explores the spiritual contracts that are created when a human bonds with an animal and shows how we come into each other's lives for a reason Providing real life examples Billups explains why animals choose at the soul level to have certain perceived negative experiences such as physical or behavioral issues to evolve their souls clear karma and help our soul's evolution She shows that human and animal souls orchestrate every experience and interaction that holds potential for transformation and healing including the final transition She demonstrates the inner dynamics of the animal human relationship to help animal lovers understand their soul contracts with their pets The inspirational real life examples of animal human tandem healings that Billups facilitated identify the soul contracts within each pairing that transformed feelings of grief loss abandonment betrayal trauma abuse and anxiety The author reveals how animals we have previously loved and shared our lives with come back either on the spirit level or reincarnated in a new animal form to support us Offering peace and hope to those who've lost beloved animal companions she describes what she's witnessed during healing sessions with animals in the weeks before they transition and during their passing Billups also includes practical instructions for identifying different types of animal soul contracts and connecting with and enlisting the help of your light team or spirit guides By discovering the soul agreements that underlie our animal partnerships we can find meaning in the issues that arise with our animals and ourselves support our souls mutual evolution and allow the soul contracts to weave their spiritual magic in the animal human relationship

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

**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

**Spirituality, Healing and Me** Ilana Estelle,2021-09-16 It's time to reset your SPIRITUAL compassEveryday life has never been more challenging and it's easy to lose sight of who we are and who we want to be In Spirituality Healing and Me Ilana Estelle draws on her experiences of emotional mental and physical disability to show how tuning into our spiritual side can improve wellbeing heal our minds and set us firmly back on track Packed with inspiring messages and real life vignettes this positive and uplifting book shows how spirituality can help us navigate even the roughest waters Improve emotional balance and wellness Boost confidence and self esteem Stay self aware grounded and patient Appreciate life and each other Accept changing circumstances Enhance positive emotions and personal healing

*Maximum PC* ,2005-08 Maximum PC is the magazine that every computer fanatic PC gamer or content creator must read Each and every issue is packed with punishing product reviews insightful and innovative how to stories and the illuminating technical articles that enthusiasts crave

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