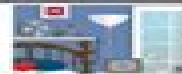


Activity A: Comparing light bulbs	Get the Gizmo ready: - Click Reset all appliances. - Check that the BEDROOM tab is chosen.	
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Introduction: Three types of light bulbs can be found in a typical household:

- Traditional light bulbs are **incandescent lamps**. In this bulb, an electric current passes through a thin tungsten filament. The filament heats up and glows, emitting light.
- In a **halogen lamp**, the filament is encased in a glass capsule containing pressurized gas. This allows the filament to be heated to higher temperatures and emit brighter light.
- In a **fluorescent lamp**, an electrical current passes through a gas inside a phosphor-coated tube. The gas emits ultraviolet radiation, which causes the phosphor to glow.

Question: Which kind of light bulb uses the least amount of energy?

1. **Form hypothesis:** Which of the three types of lamps do you think is the most efficient?

Fluorescent since gas produces the light

2. **Gather data:** On the BEDROOM tab, click on the **Incandescent light** on the desk, and the **Halogen lamp** to the right of the bed. Record the wattage of each. Then select the KITCHEN tab and record the wattage of the overhead **Fluorescent lamp**.

Incandescent lamp: 60 W

Halogen lamp: 300 W

Fluorescent lamp: 30 W

3. **Summarize:** Which lamp uses the most energy? _____ Least? _____

Which lamp uses the most energy? Halogen

Least? Fluorescent

4. **Analyze:** To gauge the efficiency of a light bulb, it is also important to consider how much light it produces. Light intensity is measured in **lumens** (lm). A lumen is equal to the light produced by a single candle. The lumens produced by each type of light are listed below.

To compare the efficiency of each bulb, calculate how many lumens each bulb produces per watt. To do this, divide the number of lumens by the wattage for each lamp. Include all units.

Lamp	Lumens (lm)	Wattage (W)	Lumens per watt (lm/W)
Incandescent	800 lm	60 W	13.3 lm/W
Halogen	6,000 lm	300 W	20 lm/W
Fluorescent	2,000 lm	30 W	66.67 lm/W

- A. Which lamp produces light most efficiently? Incandescent

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Household Energy Usage Gizmo

Christian G. Meyer



Household Energy Usage Gizmo:

Household Energy Usage Gizmo: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Household Energy Usage Gizmo : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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