

Activity A:**Comparing light bulbs****Get the Gizmo ready:**

- Click **Reset all appliances**.
- Check that the **BEDROOM** tab is chosen.



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

House Hold Energy Use Gizmo Answers

Ensheng Dong

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.

House Hold Energy Use Gizmo Answers:

Reviewing **House Hold Energy Use Gizmo Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**House Hold Energy Use Gizmo Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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