

Name _____ Date _____



Watt Unit of measure for electrical power	Incandescent Traditional or "regular" light bulb developed over 130 years ago by Thomas Edison	Compact Fluorescent Light (CFL) Same lumens as incandescent but using up to 75% less energy and lasting significantly longer	Light Emitting Diode (LED) Same lumens per watt as CFL with a life span significantly longer than that of a CFL
Watts			
Temperature #1 (°C)			
Temperature #2 (°C)			
Temperature #3 (°C)			

DID YOU KNOW?

Lighting accounts for about 10% of an electric bill in an average U.S. home.

The average U.S. home has 30 light fixtures.

? Which bulbs use the **LEAST** energy (watts)?

? Which bulb generated **MORE** heat than the others?

? In conclusion, which bulbs are **MOST EFFICIENT**? Why?

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NOTE: The below word problems are based on actual data, but no data can be definitive, as there are too many usage variables potentially impacting the life span and cost of lighting.

EFFICIENT MATH:

If a CFL costs \$0.19 per month to operate, then how much does it cost to operate for one year?

Lighting costs \$285 per year to run all incandescent bulbs in Savvy & Squander's house. Savvy replaced all bulbs with CFLs and only paid \$68 for lighting the next year. How much money did Savvy's energy-efficient decision save on lighting from one year to the next?



Use data from the chart below to calculate how many times a customer would need to replace each type of bulb in a 24-year period.

BULB TYPE	LIFE SPAN IN YEARS (6 hour/day average bulb use)
Incandescent	1
CFL	4
LED	12

