

Blinding Heat

Name: _____

Objective:

The objective of this activity is to show a relationship between a CFL and an incandescent light bulb through energy usage and temperature.

Hypothesis:

I think that the _____ bulb will use more energy than the _____ bulb. I think that the _____ bulb will give off more heat than the _____ bulb because _____.

I think that the _____ bulb will be brighter than the _____ bulb.

Materials:

- 1 Compact Florescent Light Bulb (CFL) -- curly
- 1 Incandescent Light Bulb -- round
- 1 Light Bulb Docking Station
- 1 Kill-A-Watt Meter
- 1 Ten Foot Extension Cord
- 1 Thermometer
- 1 Activity Sheet

Data:

Room Temperature: _____

CFL Light Bulb			Incandescent Light Bulb		
Time(s)	Temperature (in °F)	Watts	Time(s)	Temperature (in °F)	Watts
45 (Example)	100 (Example)	20 (Example)	45 (Example)	100 (Example)	20 (Example)
15			15		
25			25		
30			30		
45			45		
60			60		
75			75		
90			90		
105			105		
120			120		