



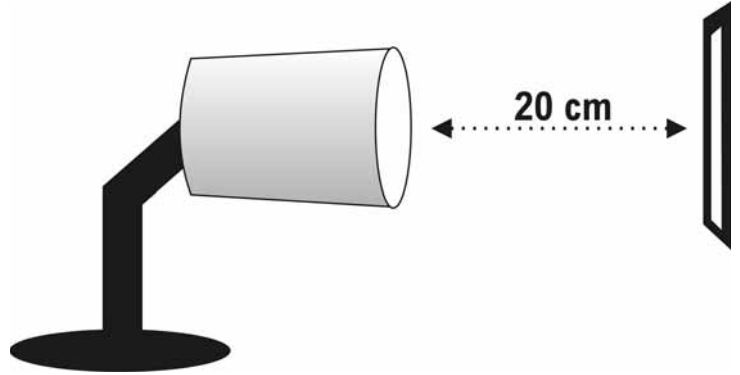
Light Bulb Investigation 1

🔄 OBJECTIVE

To compare the heat output of an incandescent to a compact fluorescent light bulb.

📄 MATERIALS

- 2 Lamps
- 1 Incandescent light bulb
- 1 Compact fluorescent bulb
- 2 Thermometers
- Tape



🖼️ PREPARATION

Read all of the steps in the procedure.

☀️ HYPOTHESIS

☑️ PROCEDURE

1. Place the incandescent bulb in one lamp and the compact fluorescent bulb in the other.
2. Place the lamps on a table about 20 cm apart facing a blank wall.
3. Tape the thermometers to the wall so the lamps shine directly on them, as shown in the diagram above.
4. Record the thermometer readings in the chart below.
5. Turn on the lamps. Record the thermometer readings at 2-minute intervals for 10 minutes.
6. Calculate and record the change in temperature for each bulb (Δ = change). Compare.

📊 DATA

BULBS	TEMPERATURE (CELSIUS)						
	0 MIN	2 MIN	4 MIN	6 MIN	8 MIN	10 MIN	ΔT
Incandescent							
Compact Fluorescent							

** CONCLUSION

What did you learn about the heat output of an incandescent bulb and compact fluorescent light bulb? Use data to support your answer.