



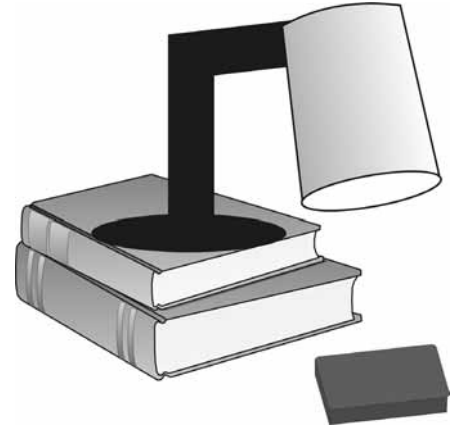
Light Bulb Investigation 3

OBJECTIVE

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

MATERIALS

- 2 Lamps
- 1 Incandescent light bulb
- 1 Compact fluorescent bulb
- 1 Light meter



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 on identical stacks of books as shown in the diagram above.
3. Plug the lamps into an outlet and turn them on.
4. Use the light meter to measure the light output of the lamps.
5. Compare the output measured by the light meter to the stated output of the bulbs.

DATA

Record your measurements and calculations in the table below.

BULBS	FOOT-CANDLES FROM LIGHT METER	STATED LUMEN OUTPUT
Incandescent		
Compact Fluorescent		

CONCLUSION

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