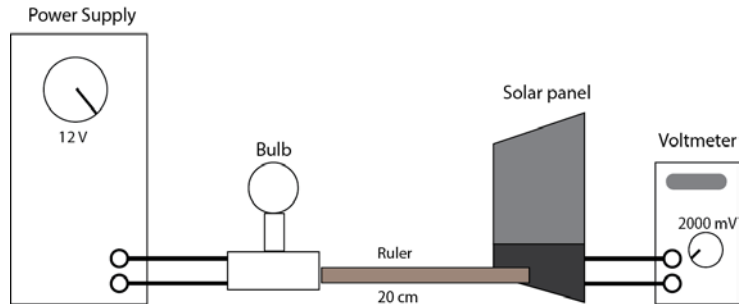


Investigating Solar Cells

Aim: Does the energy produced by a Solar Cell depend on how bright the light is?

Hypothesis: I think the energy produced by a solar cell becomes greater as the light gets brighter.

Method: The apparatus was set up as shown below. The settings on the apparatus are also shown



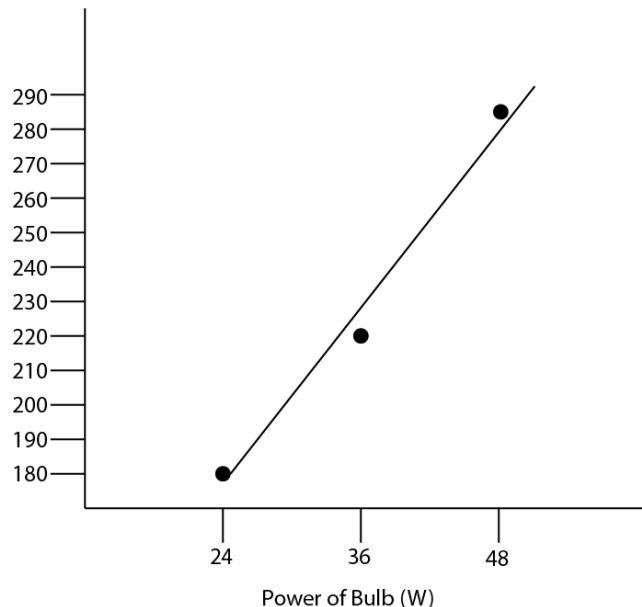
To change the brightness 24 W, 36 W and 48 W bulbs were used. The solar cell was placed facing each bulb at a distance of 20.0 cm which was kept the same using a meter stick. The energy from the solar cell was measured using a voltmeter. The experiment was repeated three times.

Results

Energy from Solar Cell (V)

Bulb (W)	Experiment 1	Experiment 2	Experiment 3	Average
24	179	180	181	180
36	220	220	220	220
48	280	290	285	285

Energy of Solar Cell (V)



Conclusion: The Energy from the solar cell increased as the bulb got brighter and my hypothesis was correct.

Evaluation: The results are as expected and my activity was successful.