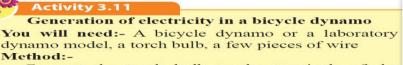
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Unit 3 – Generation of Electricity(3)

> Solar panels

0	Activity 3.9						
	Studying the function of a solar panel You will need:- A solar panel,						
	a small electric motor, a torch bulb,						
	connection wire						
1	Method:-						
•	Connect the terminals of the electric						
	motor to the terminals of the solar panel.						
•	Expose the solar panel to light and observe.						
•	Change the terminals of the solar panel, which are connected to the						
	motor. Observe whether the direction of turning of motor changes.						
	Keep the solar panel in the dark and observe the running of motor.						
	Repeat the activity using the torch bulb instead of the motor.						
	Tabulate the observations.						
	Instance	Electrical	Torch				
	mstanee	Motor	bulb				
	When solar panel is exposed to light						
	When solar panel is kept in dark						
	When the terminals of solar panels are changed						

> Dynamo



- Connect the torch bulb to the terminals of the dynamo.
- Turning the dynamo slowly and faster, observe the brightness of the bulb.Discuss the reason for the observation.



Making a simple dynamo

You will need:- About 4 m of insulated copper wire (32 SWG), a bar magnet, a large cork, about 10 pieces of iron wires (each 15 cm long), a galvanometer, cellotape, a bicycle spoke

Method:-

- Bend all the 10 iron wires in U shape, where each arm is about 2 cm long.
- Keep all the bent wires in a single pile to make a bundle of them.
- Wind the insulated copper wire around the bundle of iron rods, as shown in the Figure 3.19, to make a coil.
- Clean both ends of the coil and connect them to the galvanometer
- Place the bar magnet, fitted to the large piece of cork, near the coil and turn it.
- Observe the movement of the indicator of galvanometer.

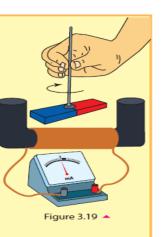


Figure 3.18