



## Spinner

A solar cell changes light into electricity. So long as light falls on the cell then it will never 'run out' of electricity, like a battery. How many things can you think of that need electricity to make them work?

### You will need:

- Solar cell
- Paper and pencil
- Motor
- Wires to connect cell and motor
- Propeller or large gear wheel
- Sunshine or a bright lamp

### Steps:

1. Connect the two motor wires to the PV cell terminals. Draw a diagram to show how you have made the circuit.
2. Place the PV cell in direct sunlight outside or near a window (or if you cannot do this shine a bright lamp on the PV cell).
3. See how fast the motor spins. What happens when you cover the PV cell with your hand?
4. Is the sky clear and blue or dark and cloudy? What happens when you turn the PV cell away from the light?

### Conclusions:

We can use a solar cell to make electricity from sunlight.

When more light shines on a solar cell it produces more electric power.

When more electric power is supplied to an electric motor it will turn faster.

