



Sabaragamuwa Provincial Department of Education
Weekly School

Subject :- Science

Week : August 9 – 13

Grade - 11

Prepared by- Zonal Education Office , Kegalle

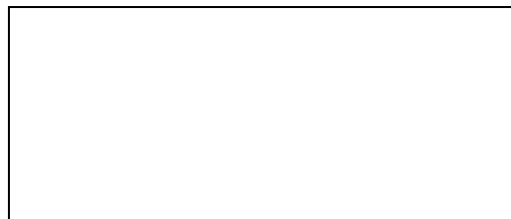
Light Emitting Diode (LED)

- Diodes which can emit the light are known as Light Emitting Diode. Compound that used in LED as semiconductor is compound.



External
appearance

- * Mark the cathode (- terminal) and anode (+ terminal) of LED
- * Draw the symbol of LED in below box



Application of Light Emitting Diode

1.
2.
3.
4.

11. 4. 6 Solar Cells

- Solar cells also belong to kind of diode. They are made up of p – n junctions.
- What is the solar panel?

.....

Application of solar cells

1.
2.
3.
4.

Advantages of solar cells

1.
2.
3.
4.

11.5 – Transistors

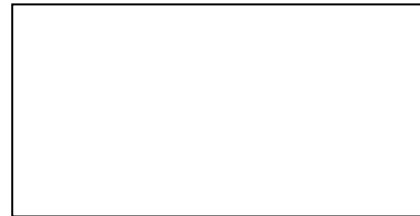
There are two types of transistors which are created by joining two p-n junctions.

1.
2.

Structure of pnp transistor



Structure of npn transistor



- There are three terminals of a transistor
 1. E – Emitter
 2.
 3.

- Draw the symbols of transistors and name the terminals.



pnp transistor



npn transistor

- What is the thing that showing an arrow head of the symbol?

.....

- State the way of joining the positive and negative terminals of the transistor to the circuit in properly.

npn transistor

+ terminal -

- terminal -

pnv transistor

+ terminal -

- terminal -

- A transistor can be used as,
 - I. Current amplifier
 - II. Signal amplifier
 - III. A switch