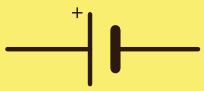
BRITISH STANDARD CIRCUIT SYMBOLS

These are the symbols you will use to draw circuit diagrams. They are the same ones used by professional engineers.

Draw symbols neatly with a ruler. Join them with straight lines and square corners.

CELL



Supplies electrical energy. Long line is +.

BATTERY



Two or more cells joined together.

LAMP



Converts electrical energy into light.

LED



Light emitting diode. Only works one way round.

SWITCH



Opens or closes the circuit.

PUSH-TO-MAKE SWITCH



Closes the circuit only while pressed.

RESISTOR



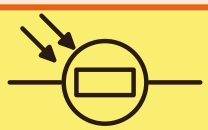
Limits the current.

VARIABLE RESISTOR



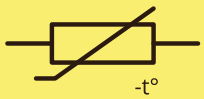
Resistance can be adjusted.

LDR



Resistance falls as light increases.

THERMISTOR



Resistance changes with temperature.

MOTOR



Converts electrical energy into movement.

BUZZER



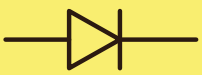
Converts electrical energy into sound.

FUSE



Melts to break the circuit if too much current flows.

DIODE



Lets current flow in one direction only.

VOLTMETER



Measures voltage. Connected in parallel.

AMMETER



Measures current. Connected in series.

JUNCTION



Wires joined. Shown with a dot.

THE TORCH CIRCUIT

