
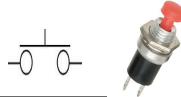
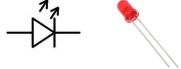
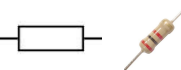
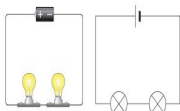
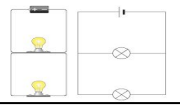









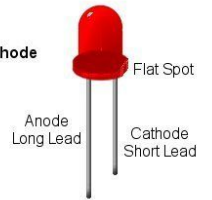
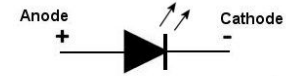
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Key Terms	Description	
Battery	A portable supply of electrical power.	
Push to Make Switch	Makes and breaks a connection when pressed.	
LED	Light Emitting Diode - low energy light source.	
Resistor	Resists the flow of electric current. Protects an LED.	
Series Circuit	Electric current passes through each component one after the other.	
Parallel Circuit	Components connect to a common point at each end.	
Solder	A low-melting alloy eg. of lead and tin.	
Soldering Iron	A tool used for melting and applying solder.	
Wire Strippers	A tool for removing insulation from wires.	
Wire Cutters	A tool for cutting wire.	
Pliers	A tool for holding and bending wire.	

Project Materials

Light Emitting Diode (LED)

- An LED is a special kind of diode that glows when electricity passes through it.
- Most LEDs are made from gallium arsenide phosphide.
- LEDs can be bought in a range of colours. Some flash or switch between colours or flash.
- The LED will only allow current to pass in one direction and often needs protecting with a resistor.
- The cathode (negative) is normally indicated by a flat side on the casing.
- The anode (positive) is normally indicated by a slightly longer leg.
- They are very energy efficient and last a long time.



Product Focus

The Evolution of Mobile Phones



'There is beauty when something works and it works intuitively.' *Jonathan Ive, English industrial designer and Apple's chief design officer.*