

Circuits (Physics)

Year 6, Autumn Term

<i>You will be taught</i>	<i>You should know</i>
to construct circuits, incorporating a battery or power supply and a range of switches, to make electrical devices work [e.g. <i>buzzers, motors</i>]	how to construct series circuits involving up to 3 cells, up to 3 bulbs, a motor, a buzzer and a switch; that electrical devices will only work if they are part of a complete circuit between the terminals of an electrical supply, and that each part of the circuit must be a conductor of electricity; the term in series
how changing the number or type of components [e.g. <i>batteries, bulbs, wires</i>] in a series circuit can make bulbs brighter or dimmer	the relative brightness of bulbs in series circuits
how to represent series circuits by drawings and conventional symbols, and how to construct series circuits on the basis of drawings and diagrams using conventional symbols.	the electrical symbols for all the components mentioned above; how to interpret and draw circuit diagrams where the components are connected in series; how to recognise a short circuit and be aware of the safety implications.

<http://www.bbc.co.uk/schools/ks2bitesize/science/activities/conductors.shtml>