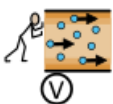
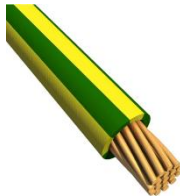
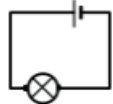
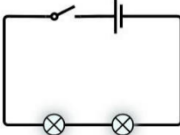
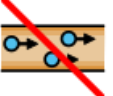
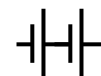


Year 6 Science – Electricity

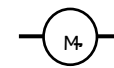
Vocabulary			Knowledge
Voltage	The force moving the electric current through wires in a circuit.		Electrical energy is a form of energy. It is the flow of charged particles called electrons around a circuit. Electrical current flows well through some materials, these are called conductors. Materials that electrical current doesn't flow well through are called insulators. Circuits Electrical current can flow if there is a complete circuit. Wires which contain a conductor inside them, usually made of metal – can allow electrical current to flow around a circuit. When electrical current flows through a circuit component it starts to work – such as a buzzer starts to make noise or a bulb starts to emit light. 
Complete circuit	A circuit that is closed and the electricity can flow round		
Series circuit	A circuit with only one route for the electricity to flow		
Symbols	Used to picture components in a circuit		
Resistance	The slowing effect on the movement of electrons around a circuit (caused by components and wires)		The more components you add to a circuit without changing the voltage means this energy is split between them and they emit less light, move slower, or make less sound. Voltage is a measure of the power of a cell to produce electricity. As the voltage in a circuit increases so does the brightness or volume of a buzzer. By changing components or voltage, we can make bulbs brighter, buzzers louder or motors quicker. 
Electrons	Parts of an atom that can move – these are what move through a circuit.		
Conductors	Materials where electricity passes through		
Insulators	Materials where electricity does not pass through		
Components	Parts of a circuit		Fuses in plugs, filaments in bulbs are designed to 'blow' if the voltage in a circuit is too high for the component, this is a safety measure to stop the circuit from overheating. 
Fault	When something is wrong with a component		
Filaments	The resistance wire in a bulb		



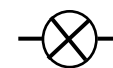
Cell



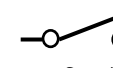
2 cell battery



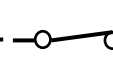
Motor



Bulb



Switch open



Buzzer

