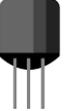
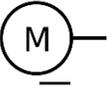
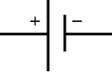
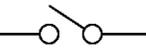
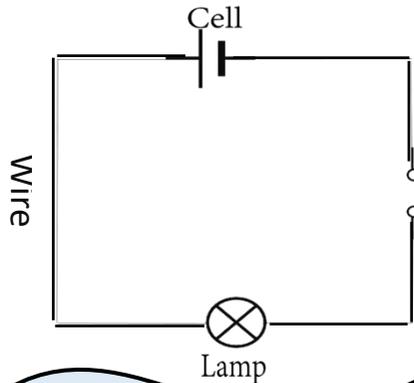


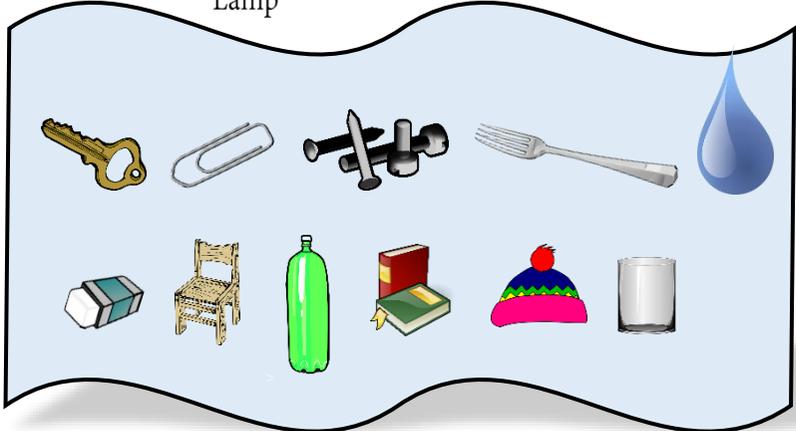
# Science - Electricity

		BULB
		BUZZER
		MOTOR
		WIRE
		VOLTMETER
		BATTERY/ CELL
		SWITCH

- 1.) If you make the wires longer, the bulb will get dimmer. This is because there is more resistance.
- 2.) If you add more bulbs, the bulbs get dimmer. This is because there is also more resistance.
- 3.) If you add more batteries, the bulbs will get brighter. This is because there is less resistance and a greater current.



This circuit will not work because the switch is open.  
A circuit must be complete to work. It must also always have a battery/cell.



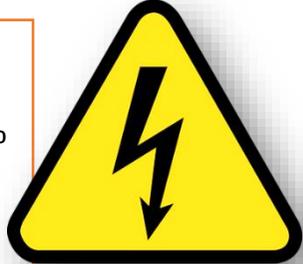
**DANGER! HIGH VOLTAGE!**  
Electricity is everywhere so always be safe. Be careful of mains switches, open sockets and any signs to do with electricity. The human body is 80% water so it conducts electricity. If someone has had a shock always turn the electricity off first, then call for help!

## COMMON APPLIANCES

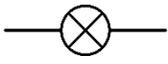
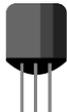
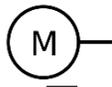
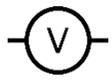
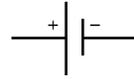
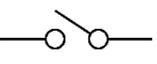


**Current:** this is the amount of electricity flowing through the circuit (a flow of electrons moving in a loop in the circuit). It is measured in amps.

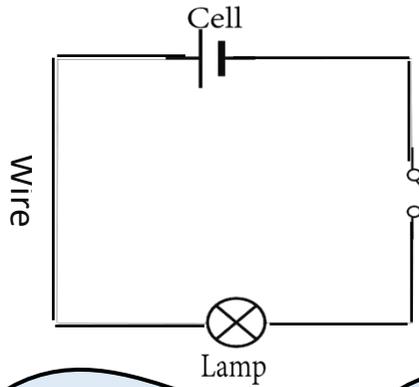
**Voltage:** is the difference in electrical energy between two parts of a circuit. It is measured in volts. The bigger the voltage, the bigger the current.



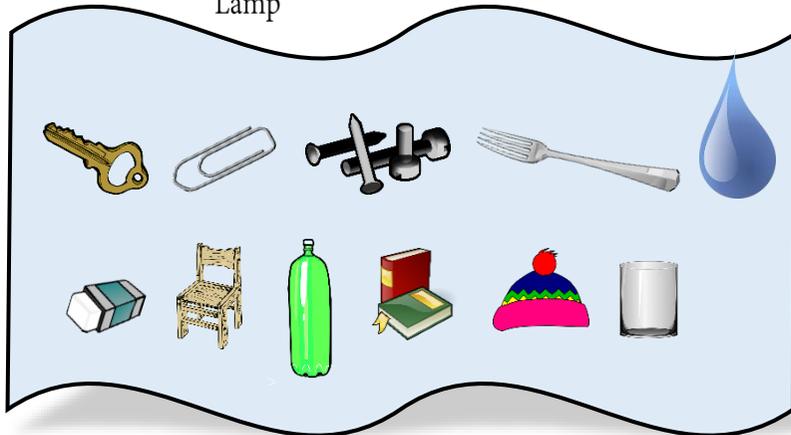
# Science - Electricity

		BULB
		BUZZER
		MOTOR
		WIRE
		VOLTMETER
		BATTERY/ CELL
		SWITCH

- 4.) If you make the wires longer, the bulb will get dimmer. This is because there is more resistance.
- 5.) If you add more bulbs, the bulbs get dimmer. This is because there is also more resistance.
- 6.) If you add more batteries, the bulbs will get brighter. This is because there is less resistance and a greater current.



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## COMMON APPLIANCES



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