Yr 3/4 Science Knowledge Organiser: Electricity

Key	Vocabulary and definitions
Circuit	A complete path around which electricity can flow. It will include a source of electricity of some sort.
current	This is the name for the flow of electricity through a wire
cell	A small device that provides electricity. A battery is an example of a cell
battery	A device that provides power (energy) for electrical items
buzzer	A buzzer is a device that makes a buzzing sound.
motor	A motor turns electrical energy into movement
switch	A switch allows a device to be turned on and off.
wire	A long piece of metal that carries an electrical current. The wire is often covered by plastic for safety.
conductor	A electrical conductor allows an electrical current to flow through it.
insulator	An electrical insulator does not allow electricity to flow through it

Thomas Edison

- Thomas Edison was born in 1847 in America.
- He is known as one of the greatest inventors in history.
- He invented the light bulb, phonograph (a device that could record and play sound) and a kinetograph (an early type of video camera)



Symbols

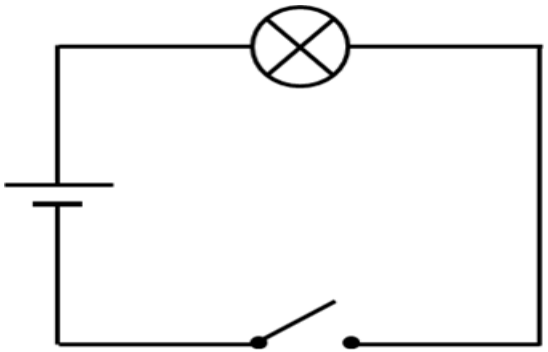




DANGERS!

- Plugging too many things in a socket
- Bare wires (with no plastic coating)
- Fingers in sockets
- Wires dangling or trailing on floors
- Water near electrical appliances or wires (water conducts electricity)
- Placing metal items in appliances

Electrical diagram of a circuit





Closed switch - electricity will flow because the circuit is complete	Open switch - electricity won't flow because the circuit is not complete.