

Power Up!

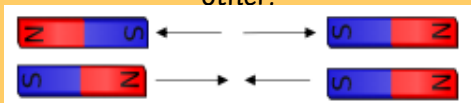


Timeline

1920	1932	1954	Jan 1959	1969	April 1981
Karen Capek coined the term 'robots' which means machines that resemble humans.	'Lilliput' was the first robot wind up toy, which was made in Japan.	George Sevol created the first digitally operated and programmable robot called Ultimate.	The first rocket that flew past the moon was called Luna 1.	NASA's rocket, Apollo 11 landed on the moon.	NASA launched its first space shuttle.

Magnetic Poles

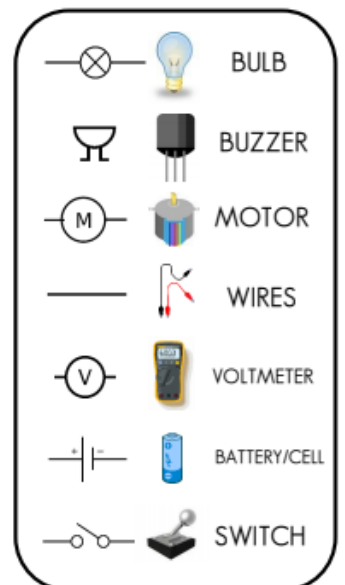
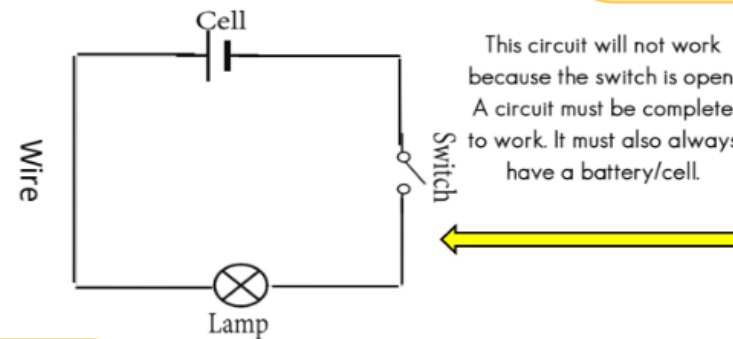
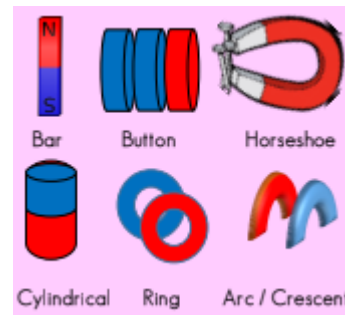
When two magnets are close, they create pushing or pulling forces on one another. These forces are strongest at the ends of the magnets. The two ends of a magnet are known as the north pole (N) and the south pole (S). The same poles repel which means if you try to put them together the magnets will push away from each other. Opposite poles attract which means if you put them together they will stick to each other.



Common household appliances which run on electricity:



The Earth has a natural magnetic field which means the pin on a compass always turns to face north to help people find their way. The Earth core is said to be filled with iron and nickel, which are metals which give it a magnetic field.



What is a magnet?

A magnet is an object which produces an area of magnetic force around itself called a magnetic field. If a metal object enters this magnetic field, they will be attracted towards the magnet and end up sticking to it. Non-magnetic objects, such as wood, plastic or fabric would be attracted to it.

Forces

A force is a push or pull, acting on an object as a result of the object's interaction with another object. Forces can make objects stop or start moving. When objects are pushed or pulled, the opposing force is called friction.

BOOKS TO READ WITH THIS TOPIC

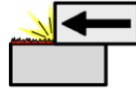




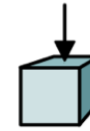
magnetic



non-magnetic



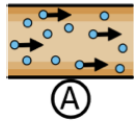
friction



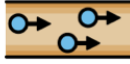
surface



magnetism



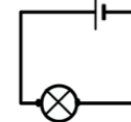
current



conductor



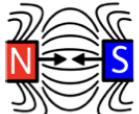
insulator



circuit



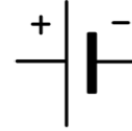
repel



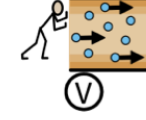
attract



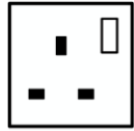
plug



cell



voltage



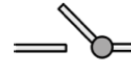
socket



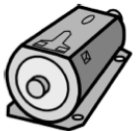
buzzer



voltmeter



switch



motor



lamp



record



predict



plan enquiry



observe



evaluate

