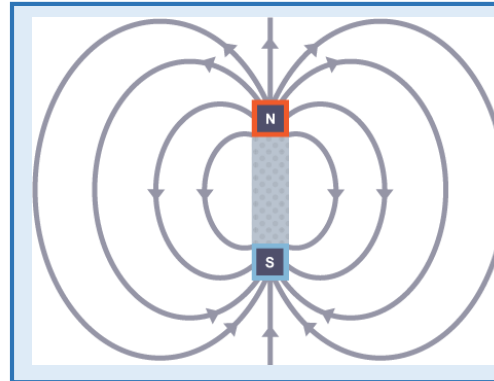


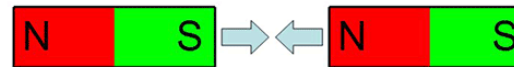
# Physics: Magnetism

Key word	Definition
Magnetic Material	A material that is attracted to a magnet such as iron, steel, nickel or cobalt
Attract	When two opposite poles of a magnet are put together
Repel	When two of the same poles of a magnet are put together
Permanent magnet	A permanent magnet is an object made from a material that is magnetized and creates its own persistent magnetic field
Bar magnet	A permanent magnet that cannot be turned on or off
Induced magnet	A magnet produced by the force of the field
Magnetise	Make into a magnet
Magnetic field	A region where there is a force on a magnet or magnetic material
Magnetic force	The force exerted onto a magnetic material brought into a magnetic field
North pole	The pole of a magnet that points towards the north
South pole	The pole of a magnet that points towards the south
Electromagnet	A temporary magnet produced using an electrical current

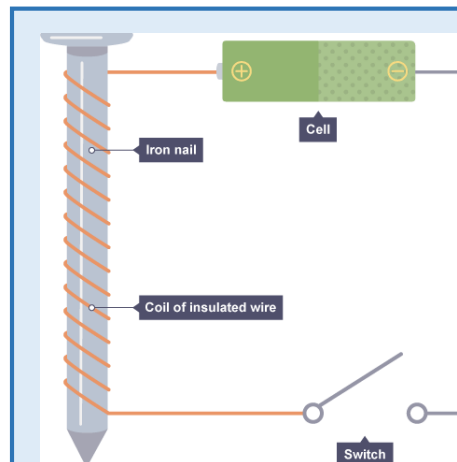
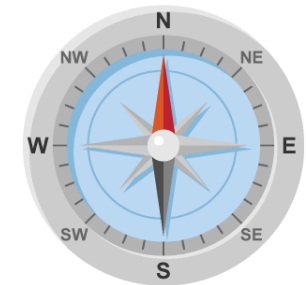
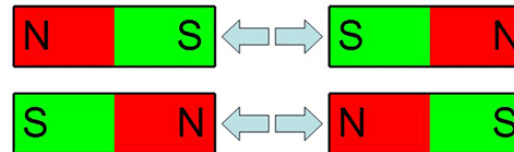


- Each field line has an arrowhead on it
- The field lines come out of the north pole and go into the south pole
- The field lines are more concentrated at the poles where the field is strongest

Opposite poles attract



Similar poles repel



You can make an electromagnet stronger by :

- Wrapping the coil around a piece of iron (such as an iron nail)
- Adding more turns to the coil
- Increasing the current flowing through the coil

