

Aston & Cote Primary School – Knowledge Organiser 2023/24



Science

Year 3

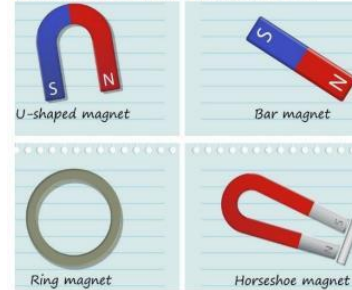
Term 3

Forces and Magnets

Key Vocabulary

Force	A push or pull on an object which can cause it to move, change speed, direction or shape. Measured in Newtons (N).
Magnet	A material or object that produces a magnetic field. It attracts or repels magnetic objects, including iron.
Magnetic field	The area around a magnet that has magnetic force. All magnets have a magnetic field, no matter how big they are.
Non-magnetic	Materials which are not attracted by a magnet
Magnetic	Objects that can be pushed or pulled by a magnet
Metal	A material that may be magnetic depending on what type of metal it is.
Attract	The force of one object pulling another object towards it
Repel	The force of one object pushing another object away from it
North and South Pole	The two ends of a magnet

DIFFERENT TYPES OF MAGNETS



Magnets are objects or materials that produce a magnetic field and attract or repel magnetic objects. Magnets cannot pull or push anything made of wood, plastic and some other materials.

Magnetic ✓

These objects contain iron, nickel or cobalt. Not all metals are **magnetic**.

Non-magnetic ✗

These objects do not contain iron, nickel or cobalt.

Magnets do not push or pull. The ends of a magnet are called poles.

One end is called the **north pole** and the other end is called the **south pole**. If you align two magnets so the south pole of one faces the north pole of the other, the magnets will move towards each other. This is when they **attract**.

If you line the magnets up so that two of the same poles face each other, the magnets will move away from each other. This is when they **repel**.

