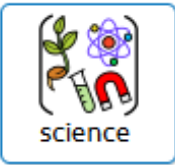


Science – Year 3 – Magnets



1. To explore different styles of magnets and their poles.	2. To investigate which materials are magnetic or non-magnetic.	3. To investigate if all metals are magnetic?	4. To explore if magnet poles attract or repel.
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magnet	An object that can pull a magnetic material	magnet
magnetic	Describes a material which can be pulled by a magnet	magnetic
poles	The two ends of a magnet, known as the north pole (N) and south pole (S)	
iron	A metal that is magnetic	iron
magnetic force	A non-contact force caused by a magnet	magnetic force
metal	A material that is usually hard and shiny	metal
attract	A magnetic force that pulls	attract
steel	A metal that is magnetic	steel
aluminium	A metal that is not magnetic	aluminium
repel	A magnetic force that pushes two magnets apart	repel

Attract or Repel?

Magnets can attract (pull towards) each other.
Opposite **poles attract**.

Magnets can repel (push away from) each other.
Identical **poles repel**.

Magnetic Materials

Objects that are **magnetic** are made of **metal**. However, not all **metals** are **magnetic**. Materials such as plastic, wood, glass, paper, fabric and stone are non-magnetic materials.

Magnetic Metals

Magnetic	Non-Magnetic
<p>iron steel</p>	<p>copper aluminium gold</p>

Types of Magnets

Poles

All **magnets** have a north **pole** and a south **pole**.