
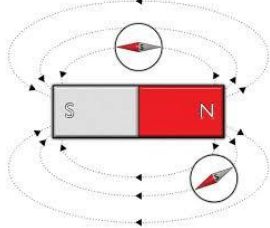

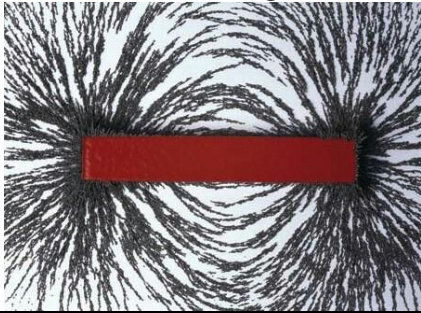
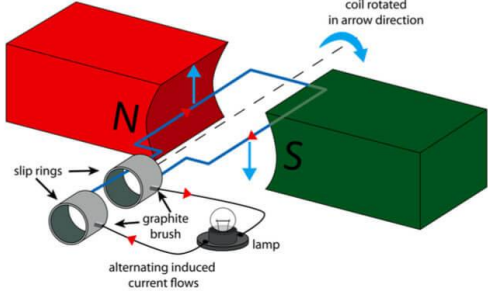
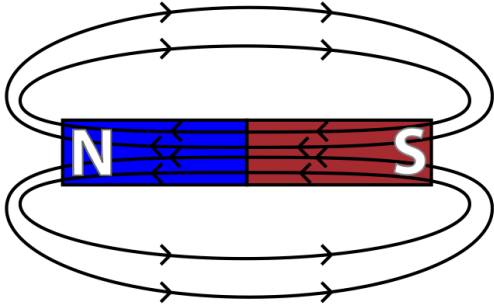
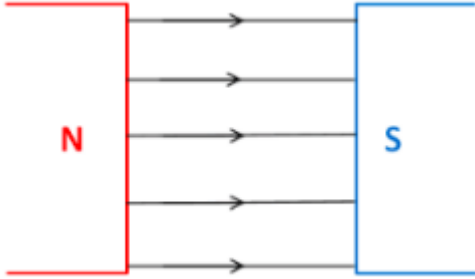


6b Magnetism and Electromagnetism Year 9

Key word	Simple meaning	GCSE definition	Words in a sentence	Translation
Attract	Pull together	A force that pulls two object towards each other.	A <b>north</b> and a <b>south pole attract</b> each other.	
Compass	Object showing direction. 	A piece of equipment to show the <b>direction</b> of a <b>magnetic field</b> .	The pupil placed the <b>compass</b> around the magnet and marked the direction with an arrow. 	
Hard magnetic	Magnet e.g. fridge magnet	An object that retains magnetism <b>permanently</b> , but relatively <b>hard</b> to <b>magnetise</b> or <b>demagnetise</b> . It does not lose its magnetism. 	A <b>compass</b> has a pointer that is <b>magnetically hard</b> . The pointer is <b>attracted</b> to the <b>north pole</b> .	
Induce (magnetism)	Make something behave like a magnet.	<b>Induce magnetism</b> means make a material <b>magnetic</b> when it is in a magnetic field.	The bar magnet <b>induced</b> a magnetic field in the iron filings. 	
Induce (current)	Create a current	<b>Moving a conductor</b> in a <b>magnetic field</b> <b>induces</b> a <b>current</b> in it.	The <b>generator induces</b> a <b>current</b> in the wire when it is turning through the <b>magnetic field</b> .	

			<p style="text-align: center;">Simple a.c. Generator</p> 	
<p>Magnetic field line</p>	<p>A line drawn on a diagram to show the direction and strength of a magnetic field.</p>	<p>A line drawn on a diagram to show the direction and strength of a magnetic field.</p> <p>Lines close together represent strong fields. Arrows show the direction a north pole would feel a force. Lines never cross.</p>	<p>The <b>magnetic field lines</b> were close together at the poles of the <b>magnet</b>, the <b>magnetic field</b> was stronger there.</p>  <p>A <b>uniform magnetic field</b> is shown by lines that are parallel, straight and evenly spaced.</p>  <p>The magnetic field lines point from North to South.</p>	
<p>Magnetic field</p>	<p>An area where magnets feel a force. E.g. there is a magnetic field around the Earth.</p>	<p>An area in space where <b>magnetic poles</b> or <b>moving electrons</b> feel a force.</p>	<p>The <b>compass</b> points in the <b>direction</b> of the <b>magnetic field</b>.</p>	

Poles	The ends of a magnet.	The ends of a magnet, north and south.	The <b>magnetic field</b> is the strongest at the <b>poles</b> of the <b>magnet</b> .	
Repel	Push away. E.g. two north poles repel each other.	A force that pushes two objects away from each other.		
Soft magnetic	Something attracted to magnets e.g. fridge	An object that is <b>easily magnetised</b> and <b>demagnetised</b> , does <b>not retain magnetism</b> . E.g. a fridge door.	The fire door had a metal disc that was <b>magnetically soft</b> . When the fire alarm sounded, it <b>lost its magnetism quickly</b> and the door shut.	
Uniform field	Constant force in an area.	A place where there is a constant force.	