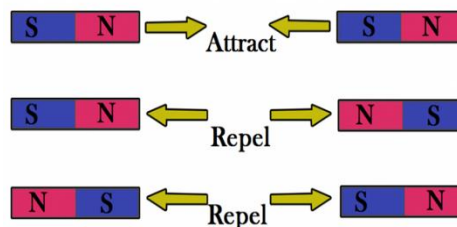





## Year 3 Forces and magnets

Key vocabulary	
<b>Attract</b>	A force that pulls an object towards it
<b>Contact-force</b>	A physical power exerted against an object by touching it.
<b>Force</b>	The push or pull on an object with mass.
<b>Magnetise</b>	To cause an object to become temporarily or permanently magnetic.
<b>Magnetism</b>	A natural power of some objects and substances, especially iron, to attract other objects
<b>Non-contact force</b>	A physical power exerted against an object without touching it
<b>Poles</b>	The two opposite ends of a magnet
<b>Repel</b>	A force that pushes an object away

Key Knowledge	
<b>Preceding</b>	<ul style="list-style-type: none"> <li>Say why a material might or might not be used for a specific job</li> </ul>
<b>Current</b>	<ul style="list-style-type: none"> <li>A force is a push or pull that moves an object.</li> <li>For some forces to act there must be contact. Magnetic force can act from a distance.</li> <li>A magnet attracts magnetic material such as iron, nickel and stainless steel.</li> <li>The strongest parts of a magnet are the poles - named the north pole and the south pole.</li> <li>Opposite poles attract and pull towards each other.</li> <li>Like poles (north and north, south and south) repel and push each other away. See diagram</li> <li>A magnet does not need to touch the object that it attracts or repels</li> <li>When an object moves across a surface, the texture of the surface will affect how quickly it moves.</li> </ul>



Scientific Enquiry	
<b>Identifying and classifying</b>	<p>Which materials are magnetic?</p> 
<b>Comparative testing</b>	<p>Which magnet is the strongest?</p> 
<b>Observing over time</b>	<p>If we magnetise a pin, how long does it stay magnetised for?</p> 
<b>Pattern Seeking</b>	<p>Does the size and shape of a magnet affect how strong it is?</p> <p style="text-align: center;">Common Magnet Shapes</p> 