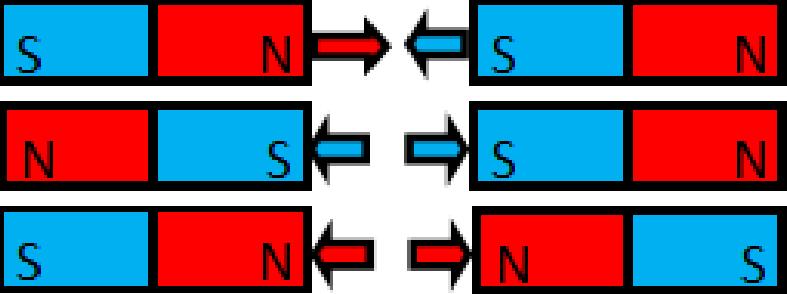
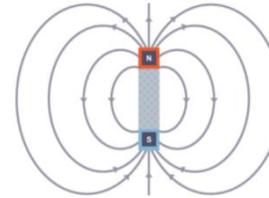
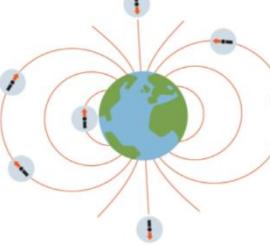


1. Forces									
Force	<ul style="list-style-type: none"> <li>A push or a pull on an object.</li> <li>It causes the object to:</li> </ul> <table border="1"> <tr> <td>Move things</td><td>Slow/stop/change direction</td><td>Change shape</td></tr> <tr> <td>Kick Roll</td><td>Catch Bounce</td><td>Press Stretch</td></tr> </table>			Move things	Slow/stop/change direction	Change shape	Kick Roll	Catch Bounce	Press Stretch
Move things	Slow/stop/change direction	Change shape							
Kick Roll	Catch Bounce	Press Stretch							
Friction	<ul style="list-style-type: none"> <li>A <b>force</b> between two surfaces that are sliding across each other.</li> <li>A <b>rough</b> (uneven) surface creates <b>more friction</b> so the object moves slower.</li> <li>A <b>smooth</b> (even) surface creates <b>less friction</b> so the object moves quicker.</li> </ul>								
Gravity	<ul style="list-style-type: none"> <li>A <b>pulling</b> force exerted by the Earth on objects, causing them to move <b>towards</b> the ground.</li> </ul>								
2. Sir Isaac Newton's Three Laws of Motion									
First	An object will stay in the <b>state</b> it is in (rest or motion) unless a force acts on it.								
Second	<b>Acceleration</b> (ability to get faster) depends on the <b>magnitude</b> (how much/big) of the force applied and the mass of the object.								
Third law	"For every action, there is an equal and opposite re-action."								
3. Magnetic Force									
Magnetic force	<ul style="list-style-type: none"> <li>Magnets are objects that pull or push things with an invisible force called <b>magnetism</b>.</li> <li>Magnets <b>attract</b> (cause something to come near) some objects and <b>repel</b> (force something away) some objects.</li> <li>Some magnets are stronger than others.</li> <li>Stronger magnets create a bigger push and pull force than weaker magnets</li> </ul> <table border="1"> <tr> <td>Magnetic</td><td>Non-magnetic</td></tr> <tr> <td>Iron Steel Nickel</td><td>Brass Tin Copper</td><td>Aluminium Gold Silver</td></tr> </table>			Magnetic	Non-magnetic	Iron Steel Nickel	Brass Tin Copper	Aluminium Gold Silver	
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4. Magnetic Poles					
Poles	<ul style="list-style-type: none"> <li>The ends of a magnet are called its <b>poles</b>. One end is called the <b>north pole</b> and the other end is called the <b>south pole</b>.</li> <li>A <b>north pole</b> and a <b>south pole</b> <b>attract</b>.</li> <li><b>Two north poles together</b> or two south poles together <b>repel</b>.</li> </ul>				
Laws of Attraction					
		<p>Magnetic force flows from the North pole of the magnet to the South pole. This creates a <b>magnetic field</b> (the space around a magnet in which a magnetic force is active).</p>			
		<p>The <b>Earth</b> behaves as if it contains a <b>giant magnet</b>. It produces a magnetic field in which the field lines are most concentrated at the poles.</p>			
					
5. Key Figure					
Galileo Galilei	<ul style="list-style-type: none"> <li>Born 15<sup>th</sup> February 1564 in Pisa, Italy</li> <li>Died January 8<sup>th</sup> 1642 under house arrest because the Church thought his ideas went against their teachings.</li> <li>Proved the Earth and the planets revolved around the Sun</li> <li>Proved that heavy and light objects fall at the same speed</li> </ul>				

