1	Castlefield School - Science						
Castlefield School	Topic: Forces and Magnets		Year: Three	Theme: Energ	ıy	Strand: Physics	
Key Concepts				Key Vocabulary			
<ul> <li>What are forces?</li> <li>Forces are pushes and pulls.</li> <li>These forces change the motion of an object. They will make it start to move or speed up, slow it down or even make it stop.</li> <li>How do different surfaces affect the motion of an object?</li> <li>Friction is a force that holds back the motion of an object.</li> </ul>		<ul> <li>How do magnetic poles work?</li> <li>The ends of a magnet are called poles. One end is called the north pole and the other end is called the south pole.</li> <li>Opposite poles attract, similar poles repel.</li> <li>If you place two magnets so the south pole of one faces the north pole of the other, the magnets will move towards each other. This is called attraction.</li> </ul>		attract	If one object attracts another object, it causes the second object to move towards it.		
				friction	The resistance of motion when there is contact between two surfaces.		
				magnet	A piece of iron or other material which attracts magnetic materials towards it.		
				magnetic field	An area around a magnet or something functioning as a magnet in which the magnet's power to attract things is felt.		
<ul> <li>Motion</li></ul>		<ul> <li>If you place the magnets so that two of the same poles face each other, the magnets will move away from each other. They are repelling each other.</li> <li>Repel</li> <li>S</li> <li>M</li> <li>Repel</li> <li>N</li> <li>S</li> <li>N</li> <li>N</li> <li>N</li> <li>S</li> <li>N</li> <li>N</li> <li>N</li> <li>S</li> <li>N</li> <li>N<!--</td--><td><sup>5</sup> motion</td><td colspan="2">The activity of changing position or moving form one place to another.</td></li></ul>		<sup>5</sup> motion	The activity of changing position or moving form one place to another.		
				non- magnetic	An object that is not attracted to magnets.		
				opposite	Opposite is used to describe things of the same kind which are completely different in a particular way.		
				position		someone or something is the ay are in relation to other things.	
					When a magnetic pole repels another magnetic pole, it gives out a force that pushes the other pole away		
	ct itself and the surface	When magnets attract, they pull together.			<ul> <li>Which materials are magnetic?</li> <li>Objects that are magnetic are attracted to magnets.</li> </ul>		
Working Scientifically Skills           Asking relevant questions.         Setting up enquiries and choosing equipment.					<ul> <li>Iron and steel are magnetic.</li> <li>Aluminium and copper are non-magnetic.</li> </ul>		
<u>?</u> ?							
Ex Ex	plaining results – drawing cond	clusions Setting (	ıp fair tests (with help)	Famous Scientists			
Rei	Choos		g how to record information – tables, arts, Venn and Carroll diagrams and rts.		William Gilbert (1544 – 1603) – English physician who was the first person to research the properties of magnets.		