Linked Scientists

William Gilbert (doctor who developed the theory of magnetism) Leonardo da Vinci (first person to carry out tests on friction)

Key Vocabulary						
attract	A pull force . If one object attracts another object, it					
	causes the second to move towards it.					
bar magnet	Magnet in the shape of a bar					
	with poles at both ends.					
contact force	A force that happens when two objects come into					
-	contact					
force	Push or pull on an object					
horseshoe	Magnet in the shape of a horseshoe					
magnet						
iron	Metal which is attracted to magnets					
magnetism	An invisible force which attracts or repels materials					
magnetic field	Space or area in which a magnetic force can be					
	detected					
material	Substance used to make something. Materials have					
	different properties					
metal	A material usually known for its strength. They					
	are also good conductors of heat and electricity.					
	Most metals are attracted to magnets					
north pole	Strongest part at the end of a magnet. Magnets					
	have 2 poles (north and south). Two of the same					
south pole	poles will repel each other. Opposite poles will attract					
non-contact	Force which affects an object without coming into					
force	contact with it					
pull	When a force brings an object closer					
push .	When a force moves an object away					
repel	A push force					
steel	Metal which is attracted to magnets					
strength	Measure of how strong or weak something is					
twist	Turning force					

	enow by the end of the unit					
What are forces?	A force is a push or pull. These forces change the motion of an object. They will make it start to move or speed up, slow it down or make it stop.					
How things	Forces act in opposite directions to each other.					
move on	When an object moves across a surface, friction acts as an opposite force. Friction is a force that holds					
different	back the motion of an object.					
surfaces	Some surfaces create more friction than others which means that objects move slower across them, grass gravel carpet concrete sand wood On a ramp, the force that causes the object to move downwards is gravity.					
How	Magnets produce an area of force around them called a magnetic field.					
magnets work	When objects enter this magnetic field, they will be attracted to or repelled from the magnet if they are magnetic.					
Magnets	Magnets attract magnetic materials.					
attract and repel	The metals iron and steel are magnetic. Anything containing these metals is also magnetic.					
different						
materials	Magnets can attract and repel each other. The ends of a magnet are called poles. One end is					
Magnets	called the north pole and the other end is called the					
have two	south pole.					
poles and attract and	These are the strongest parts of a magnet.					
repel each	Two of the same pole will repel (push away) each other.					
other.	Two opposite poles will attract (pull together) each other.					