## Fens Primary School Knowledge Organiser



		Science Focus:	Forces and Magnets	Year 3	Term:	
Contact Forces		Changing the movement of an object requires a		Magnetic Forces		
What is a force?	A force is either:		force to be acting on it		Why is mag-	Magnetic forces are do not need con-
	A push or		Forces can push, pull or twist objects, making them change their motion or shape. The movement of objects is changed if the forces acting on them are not in balance.		netism ditterent	ş lacı.
	A pull					
Forces can	Speed up		Objects can affect other objects at a distance Magnets affect magnetic objects at a distance as they		Magnets have a North Pole and a	South North Pole Pole
make things	Slow down					d .
	Change sh	ape	have a 'field of influence'. This is called a magnetic field. Diagrams and Symbols		Magnets attract	Attract:
	Change di	rection			or repel each	
A force that	The child is	pushing	Magnets only attract certain type	es of metals, other materials	Onler	Repel:
speeds some-	the car to s	peed it up.	such as glass, plastic and w			
ining op						North and South attract. But North and North or South and South will repel.
A force that slows something down	The girl is pulling the				Types of magnets	
	dog to slow	it down.		N 🥏 🧹	Bar	
A force that	The can is l	being		<b>~</b>	Dia a	
changes the shape of some-	squeezed s	so it			Ring	
	becomes s	maller	Metals such as iron, nickel and magnet	cobalt are attracted to ts.	Button	
A force that	When the t	call is hit	So 1		Horseshoe	
changes the	e with the racket.					
direction of	it will change				<b></b>	What? (Key Vacabulan)
something	direction.		Most metals however are not attra	cted to magnets, these	Spelling	Definition/Sentence
			and more.	sium, platinum, aluminium	Squeezed	Firmly press (usually with the fingers)
working as a scientist					Contact	Physically touching something
Explore the uses of magnets in everyday objects					Magnetic	Can be attracted to a magnet
<ul> <li>Group everyday objects into magnetic and nonmagnetic by testing with magnets</li> </ul>					Attract	To come together
Design a mechanism that requires a magnet to enable it to work					Repel	To force away/apart