Key vocabulary		
force	A force is a push or a pull.	
magnetic	An invisible force that attracts	
force	magnetic metals.	
magnet	Magnets attract magnetic	
	materials. Iron, nickel, cobalt	
	and materials that contain these	
	(e.g. stainless steel) are	
	magnetic.	
attract	To pull towards.	
repel	To push away.	
poles	Magnets have two poles, a	
	north pole and a south pole.	
contact force	Many forces need contact to	
	act:	
non-contact	Magnetic force does not need	
force	contact and can act at a	
	distance.	

Objects moving on surfaces:



A bowling green is closely mown so the grass is short and the balls roll easily.



Ice skates have a sharp blade. This helps them move better on ice.

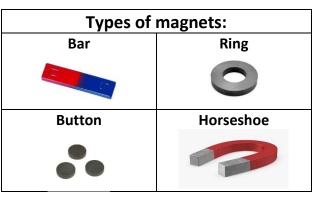
It is much harder to

walk on ice in trainers.

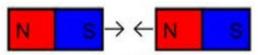
Forces and magnets –

Year 3

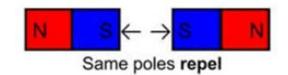
Significant scientist			
Michael Faraday	Michael Faraday was an		
(1791-1867)	English scientist.		
	In 1831, he discovered		
6-0	electromagnetic induction.		
E F	This was a very important		
	discovery for the future of		
	science and technology.		



Magnets have two poles



Opposite poles attract



A magnet attracts magnetic materials.

These metals are magnetic:		
iron nails	nickel	
	50p coins	
	contain	
	nickel	
stainless steel	steel	

We can sort and classify materials as:



© ECM Education Consultants 2019 **ECM** Information relating to 'famous scientists' adapted from work by Alex Sinclair & Amy Strachan of St Mary's University