Dog Kennel Hill Primary - Science				
Topic: Forces and Magnets Yea		r: 3 Strand: Physics		
What should I already know?			Vocabulary	
 A force is a push or pull on an object. • 		Attract	If one object attracts another object, it causes the second object to move towards it. To stick together.	
How can a force change something	will I know by the end of the unit? A force can cause something to		Force	Force is the power or strength which something has.
	 speed up slow down change shape 	slow down		When a magnetic pole repels another magnetic pole, it gives out a force that pushes the other pole away. You can also say that two magnetic poles repel each other or that they repel.
	 change direction A magnetic force is a natural force. Magnets have two poles – the north pole and the south pole. Same poles repel. Opposite poles attract. 	Gravity	A natural force that pulls thing to- wards the centre of the Earth.	
		Friction	The force when a surface or objects rubs against another.	
		Upthrust	The force that pushes an object up.	
What is fiction?	The ice skate moves easily on smooth ice. It takes more force to move on rough ground. When two surfaces slide together, a force called friction makes them stick very slightly together. Smooth surfaces have less friction than bumpy surfaces. There are two types of natural forces that we	Air resistan	ce The force that slows things down in the air.	
		Bar magnet	A magnet in the form of a bar.	
		Pull	A pull is a strong physical force which causes things to move in a particular direction.	
What are natural forces? What is gravity?	ral forces? have around us: magnetic forces and gravity forces.		Push	When you push something, you use force to make it move away from you or away from its previous position.
	centre of the earth . In space there any because the earth, stars and o are far away. That is why astronau space float	e is hardly ther planets	Metal	When you push something, you use force to make it move away from you or away from its previous position.

Magnets

Opposite Poles Repel

If you try to put two magnets together with the same poles pointing towards each other the magnets will push away from each other. We say that they repel each other. See the picture below.

Different Poles Attract

If you put two magnets together with different poles pointing towards each other the magnets will pull towards each other. We say that they attract each other.

