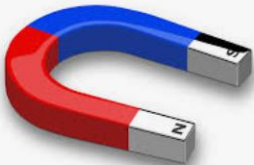
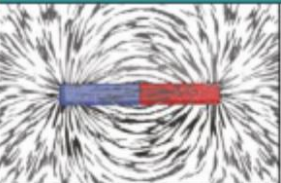
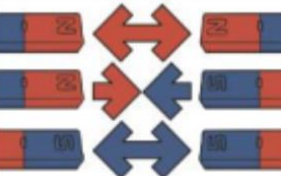


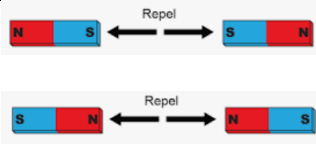
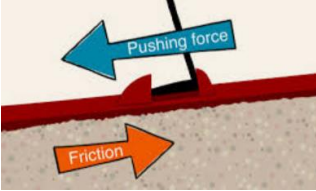


Science Knowledge Organiser 3– Year

Forces – ‘How did Rosie Revere Persevere?’



Vocabulary	Definition	Picture
magnet	An object that produces a magnetic force that pulls an object towards it	
magnetic	Objects that are attracted to a magnet are magnetic. Objects that contain iron nickel or cobalt metals are magnetic	 Magnetic ✓ These objects contain iron, nickel or cobalt. Not all metals are magnetic.
magnetic field	The area around a magnet where there is a magnetic force	
poles	North and south poles are found at the ends of a magnet	

Vocabulary	Definition	Picture
repel	Repulsion is the force that pushes objects away e.g. when a north pole is placed near the north pole of a magnet it pushed it away (repels it)	
attract	Attraction is a force that pulls objects towards one another e.g. when a north pole is placed near a south pole they pull towards one another – attract	
forces	pushes or pulls	
friction	A force that acts between two surfaces or objects that are moving across one another	
surface	The top layer of something	



Science Knowledge Organiser 3– Year

Forces – ‘How did Rosie Revere Persevere?’



Sticky Knowledge:

I know that a force is push or pull on an object which can cause it to move, change speed, direction or shape.

I know that a force is measured in Newtons (N).

I know that a magnet is a material or object that produces a magnetic field.

I know that magnets attract or repel magnetic objects, including objects containing iron, nickel or cobalt metals.

I know that a pull towards is called attraction

I know that a push away is called repulsion

I know that friction is the resistance of motion when one object rubs against another.

I know that the force due to gravity on objects is known as weight and that this force pulls on all objects near the earth.

I know that gravity is measured in Newtons (N).

I know that mass is the amount of matter contained in an object. Mass is measured in units such as grammes and kilogrammes.

I know that air resistance is the frictional force of air against a moving object.

I know that the faster an object moves, the greater the air resistance.

I know that the frictional force of water against a moving object is called water resistance.

I know that magnets have two poles - north and south

Pushes

Pulls

Forces will change the motion of an object.
They will either make it start to move, speed up, slow it down or even make it stop.

Key Knowledge

Different **surfaces** create different amounts of **friction**. The amount of **friction** created by an object moving over a **surface** depends on the roughness of the **surface** and the object, and the **force** between them.

The driving **force** pushes the bicycle, making it move.

Friction pushes on the bicycle, slowing it down.

Grass

Gravel

Sand

Road