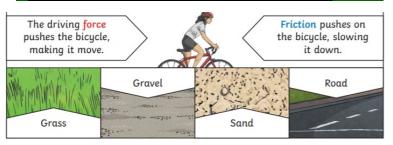
Carr Head Primary School - Knowledge Organiser

Science Forces and Magnets Year 3 Spring 2

Key Knowledge	
Different sur- faces 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.
Magnetic field	A magnetic field is invisible.
Like and oppo- site	Like poles repel and opposite poles attract.
Compasses and magnets	The needle in a compass is a magnet. A compass always points north-south on Earth.



Key Vocabulary	
forces	Pushes or pulls
friction	A force that acts between two surfaces or objects that are moving, or trying to move, across each other.
surface	The top layer of something
magnets	An object which produces a magnetic force that pulls certain objects towards it.
magnetic	Objects which are attracted to a magnet are magnetic. Objects containing iron, nickel or cobalt metals are magnetic.
poles	North or south poles are found at different ends of a magnet.
repel	Repulsion is a force that pushes objects away. For example. When a north pole is placed near the north pole of another magnet, the two poles repel (push away from each other).
attract	Attraction is a force that pulls objects together. For example. When a north pole is placed near the south pole of another magnet, the two poles attract (pull together).



Know how to...

Compare how different things move and group them.

Raise questions and carry out tests to find out how far things move on different surfaces.

Gather and record data to find answers to questions.

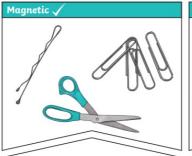
Explore the strengths of different magnets and find a fair way to compare them.

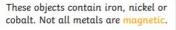
Working Scientically

Sort materials into magnetic and not magnetic.

Look for patterns in the way magnets behave.

Identify how magnetic properties can be used in everyday things.

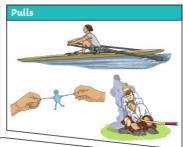






These objects do not contain iron, nickel or cobalt.





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.