



Year 3 Science Knowledge Organiser **Topic- Forces and Magnets Unit- Physics**

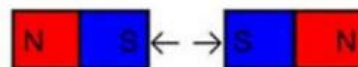
Key Vocabulary

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.
Magnet	An object which produces a magnetic force that pulls certain objects towards it.
Magnetic field	The area around a magnet where there is a magnetic force.
Poles	North and south poles that are found at opposite ends of the magnet,
Repel	Repulsion is a force that pushes objects away.
Attract	A force that pulls objects together,

Magnets have two poles



Opposite poles attract



Same poles repel

Objects moving on surfaces:



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



It is much harder to walk on ice in trainers.

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



Significant Scientist

William Gilbert – theory of magnetism



Andre Marie Ampere (founder of electro-magnetism)



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:



A magnet does not need to touch an object to attract it.