

Science – Forces and Magnets – Autumn Term 1

Prior Knowledge

- Things can move in different ways, like sliding or being pushed.
- Magnets can pull or push without even touching.
- Some objects are magnetic and some are not.
- Magnets have two ends, called poles – some poles pull together, others push apart.

Key Vocabulary

repel	to push away
attract	to pull towards
gravity	A pulling force that keeps us and everything else on the ground
friction	a force that happens when things rub together and it slows them down
force	a push, pull, or twist that makes things move.
magnetic	something that a magnet can pull
push	using force to move something away from you
pull	using force to bring something towards you

Core Knowledge

- A force is a push, pull or twist.
- Gravity is a special pulling force pulling everything down towards the Earth. This is why we don't float away into the sky.
- Friction is a force between two surfaces that rub together.
- Friction works against movement and can slow things down.
- Magnets make an invisible force that pulls certain metals and other magnets.
- Magnets have two ends called poles. One end can pull and the other can push.
- Magnets only attract certain items, like iron, steel, nickel and cobalt.

Diagrams

