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| **New Vocabulary** |
| Force | Strength or energy used to create a physical action or movement. |
| Contact | Physically ouching |
| Non-contact | Not physically touching |
| Attract | When something pulls together  |
| Repel | When something pushes away from each other |
| Poles | The strongest part of a magnet, often found at the ends |

  

**Helpful hints**

Magnets should be stored correctly (without their poles touching) as otherwise the poles of the magnet can change.

**Prior Learning**

**In Year 1 and 2, pupils learnt:**

Examples of everyday materials including wood, plastic, glass, metal, water, and rock.

The shape of some solid objects can be changed by squashing, bending and stretching.

**Did you know …**

That not all metals are magnetic?

A bigger magnet is not necessarily stronger than a smaller magnet?

**Career links**

Magnetic engineer - designs magnets, or machines and devices that contain magnets.

**Key Knowledge**

A force is a push, pull or twist.

When an object moves on a surface, the texture of the surface and the object affect how it moves (increases or decreases the speed). e.g. an ice skater compared to walking on ice in normal shoes.

A magnet attracts magnetic material.
Iron, nickel and stainless steel are magnetic.

The strongest parts of a magnet are the poles.
Magnets have two poles – a north pole and a south pole.

If two like poles, e.g. two north poles, are brought together they will push away from each other – repel. If two unlike poles, e.g. a north and south, are brought together they will pull together – attract.

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FORCES, FRICTION, MAGNETS Cycle A

Autumn Term 2 Y3/4

**Topic: Science**