



# St Andrew's C of E Maghull Knowledge Organiser



## Year 3 - Autumn 1 - Science - Forces

### Knowledge:

- I can compare how things move on different surfaces.
- I can notice that some forces need contact between two objects, but magnetic forces can act at a distance.
- I can observe how magnets attract or repel each other and attract some materials and not others.
- I can describe magnets as having two poles.
- I can predict whether two magnets will attract or repel each other, depending on which poles are facing.
- I can compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet and identify some magnetic materials.

### Vocabulary:

Attract - to pull or draw towards itself.

Force - a push or a pull.

Magnetic force - a basic force of nature.

Magnetic Material - objects that are attracted to a magnet.

North Pole - one end of the magnet.

Repel - to reject something.

South Pole - the opposite end of the magnet to the north pole.

Strength - how strong something is.

### Lesson Sequence:

Lesson 1: I can investigate how things move on different surfaces.

Lesson 2: I can observe that some forces need contact between two objects and give examples from real life.

Lesson 3: I can observe and measure magnetic forces acting at a distance.

Lesson 4: I can identify and name different types of magnets and their parts.

Lesson 5: I can compare and group together everyday materials on the basis of whether they are attracted to a magnet and identify some magnetic materials.

Lesson 6: I can predict whether two magnets will attract or repel each other, depending on which poles are facing.