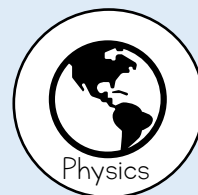


# Forces and Magnets

Year 3



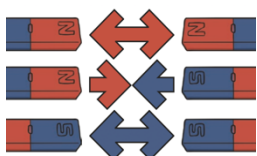
## Review:

*What should I already know?*

- How to identify and group materials based on their properties.
- How to distinguish between an object and the material it is made from.

## Essential knowledge

- Things can move differently on different surfaces.
- A force is a push or pull that acts upon an object.
- Some forces need direct contact and some don't.



- Magnets have 2 poles and can attract or repel each other.
- Materials that are attracted to magnets are magnetic.
- Materials that are not attracted to magnets are non-magnetic.
- Most metals are magnetic, but not all of them.

## Vocabulary

|                        |   |
|------------------------|---|
| Physics                | is all about Earth and space and how they work.                       |
| Working Scientifically | is all about working like a scientist to answer scientific questions. |
| Force                  | A push or pull that acts upon an object.                              |
| Magnet                 | A magnet produces a magnetic force.                                   |
| Poles                  | Each end of the magnet where the force is strongest.                  |
| Repel                  | To push away.   |
| Attract                | To pull towards.  |

| Magnetic | Non-magnetic |
|----------|--------------|
|          |              |

Working Scientifically



### Our enquiry focus:

|                             |                 |                                     |              |          |
|-----------------------------|-----------------|-------------------------------------|--------------|----------|
| Observing Changes Over Time | Pattern Seeking | Identifying, Grouping & Classifying | Fair Testing | Research |
|-----------------------------|-----------------|-------------------------------------|--------------|----------|

## Skills I will need:

- I will ask questions and make predictions about how things move on different surfaces.
- I will record how different things move on different surfaces.
- I will measure the distance an object travels when going across different surfaces.
- I will plan an enquiry about how magnetic forces act.
- I will be able to classify and sort materials that are and are not magnetic.

