



Background information

- Friction is the resistance of motion when one object rubs against another. Anytime two objects rub against each other, they cause friction.
- The ends of all magnets are known as poles; North and South poles
- No matter what a magnet looks like, it will always have 2 different poles. Just like the earth.
- When you put different poles together (north and south), the magnets will attract.
- If you put the same poles together (south and south or north and north), the magnets will repel.
- Magnetism is a force. Just like a push or a pull, it can move objects. However, magnets do not need to touch an object to move it (as long as it is magnetic). It can move it from a distance.
- The stronger the magnet, the stronger the pushing or pulling force.

Knowledge and Understanding

In this unit pupils will learn...

- To compare how things move on different surfaces
- To notice that some forces need contact between 2 objects, but magnetic forces can act at a distance
- To observe how magnets, attract or repel each other and attract some materials and not others
- To 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
- Describe magnets as having 2 poles
- Predict whether 2 magnets will attract or repel each other, depending on which poles are facing

Enquiry skills and Key concepts

- Use evidence to think and work scientifically
- Describe what is observed through first hand experiences
- Plan and carry out experiments and own enquiries
 - Present findings in creative ways
- Gather evidence to answer scientific lines of enquiry

Key Vocabulary:

Repel- When a magnetic pole repels another magnetic pole, it gives out a force that pushes the other pole away. You can also say that two magnetic poles repel each other or that they repel.

Attract- If one object attracts another object, it causes the second object to move towards it.

Pull- A pull is a strong physical force which causes things to move in a particular direction.

Push- When you push something, you use force to make it move away from you or away from its previous position.

Force- Force is the power or strength which something has

Friction- Friction is a force between two surfaces that are sliding across each other.