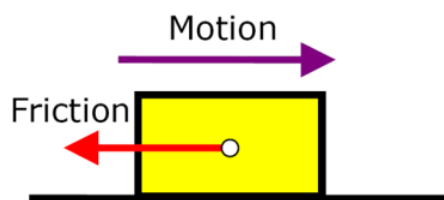


Forces

A force is a **push** or **pull** that acts upon an object. We can't see forces, but they are an important part of our everyday lives.

When we push or pull objects, we can move the object, change the object's shape, or make the object change direction.



Magnets

Magnets are usually made from iron. They can attract and repel other objects with their magnetic forces. Magnetic forces act at a distance meaning that a magnet does not need to be in contact with another object for the magnetic forces to act.

Magnets can be lots of different shapes, sizes and colours, but they will always have a north and south magnetic pole.

south
magnetic pole



north
magnetic pole

FORCES AND MAGNETS KNOWLEDGE ORGANISER

Magnets and their forces



Same poles repel.

If you try to put two magnets together with the same poles pointing towards one another, the magnets will push away from each other. We say they repel each other.

Different poles attract.

If you put two magnets together with different poles pointing towards one another, the magnets will pull towards each other. We say they attract each other.

Key Vocabulary

- **Force** – a push or a pull.
- **Contact force** – A force where objects need to touch each other to push or pull.
- **Non-contact force** – a force where objects do not need to touch each other to have a push or a pull.
- **Magnetic force** – A force between two magnets.
- **Magnet** – a material that produces a magnetic force.
- **Attract** – to pull together.
- **Repel** – to push away.
- **Magnetic pole** – where the magnetic field is the strongest

Examples of magnetic objects:

