

## Science – Forces and Magnets

YEAR 3

Magnets only attract certain types of metals, other materials such as glass, plastic and wood aren't attracted.



Metals such as iron, nickel and cobalt are attracted to magnets.



Most metals however are not attracted to magnet. These include copper, silver, gold, magnesium, platinum, aluminium and more.



Vocabulary	Definition
Squeezed	Firmly press (usually with the fingers)
Contact	Physically touching something
Magnetic	Can be attracted to a magnet
Attract	To come together
Repel	To force away/repel

### Key Information

#### Why is magnetism different?

All of the forces need contact between two objects for them to happen.

**Magnetic forces can act at a distance.**

**What is a force?** A force is either – A push or a pull



The child is pushing the car to speed it up.



The girl is pulling the dog to slow it down.



The can is being squeezed so that it changes shape and becomes smaller.



When the ball is hit with the racket, it will change direction.

Magnets have a North Pole and a South Pole .



Magnets attract or repel each other

Repel: 

Attract: 

North and South attract. But North and North or South and South will repel.



Different **surfaces** create different amount of **friction**. The amount of **friction** created by an object moving over a **surface** depends on the roughness of the surface and the object and the **force** between them.

Grass	Gravel	Sand	Road
			