



"Whatever you do, work at it with all your heart" Colossians 3:23

FORCES & MAGNETS

Key question: What is a force?

Year 3

Spring 1

Key Knowledge:

To know that:

A force is simply a push, a pull or a twist in a particular direction.

Objects move differently on different surfaces. because of friction

Some forces need contact between two objects (contact force).

Magnets attract or repel each other

Some materials can be magnetic e.g. steel, iron.

Some materials aren't magnetic e.g. wood, plastic.

Magnets as have two poles—north and south.

Opposite polarities will attract.

Similar polarities will repel.



Key Vocabulary:

Fair test - a scientific test where one factor is changed and everything else stays the same

Push— when a force moves an object away from something

Pull— a force that changes the direction of an object towards you

Twist— a combination of a push and a pull. It causes an object to rotate around a fixed point.

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

Magnet— a material that produces a magnetic field

Repel - to force away or apart

Attract—drawn together by a force

Contact force—is where you need to touch the object to apply the force

Non-contact force— a force that pushes or pulls an object without touching it

Magnetic—a material a magnet is attracted to

Poles—areas of the magnet where the magnetic force is at its strongest.

Non-magnetic - a material a magnet is not attracted to.

