

# Science- Year 3

## Spring 1- The Power of Forces

In Science, I have learnt:

How to group materials based on their properties including in a venn diagram

How materials can be changed by pulling or pushing against them.

To carry out a fair test, showing that:

- I understand what is changing/ staying the same
- I can make predictions and say why I think this.
- I can draw conclusions using evidence e.g. saying how much water is absorbed by different rocks.

Materials, rough, smooth, property, strength, strong, weak

**I can compare how things move on different surfaces.**

**I can notice that some forces need contact between two objects, but magnetic forces can act at a distance.**

**I can observe how magnets attract or repel each other and attract some materials and not others**

**I can describe magnets as having two poles.**

**I can predict whether two magnets will attract or repel each other, depending on which poles are facing.**

**I can 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.**

Working Scientifically

**I can use annotated diagrams to explain how a force is acting on an object.**

**I can carry out a fair test to find out how the surface will affect the time taken for an object to move down it.**

- I can make a prediction and say why I think this using my knowledge of materials from Year 2
- I understand what is changing/ staying the same
- I can use a stopwatch to time my trials and record this information in a table.
- I can use my results to draw a conclusion.

**I can organise my magnetic materials into a venn diagram and use these to draw a conclusion.**

**I can organise my results from my magnetism tests into tables and use these to draw conclusions.**

**I can carry out a fair test to find out which is the strongest magnet.**

- I understand what is changing/ staying the same
- I can use my results to draw a conclusion and can suggest improvements for future tests.

Scientific enquiry type:

Grouping and classifying

Carrying out a fair test

New Science words:

**Push, pull, force, friction, surface, magnet, attracts, repels, magnetic,** magnetism, acts at a distance, non-magnetic material, metal, non-metal, strength, north pole, south pole, investigation, fair test, change, measure, predict, prediction, explanation, observations, draw conclusions.

