

Y3/4 Year A Autumn Term

Topic: Lest We Forget

Subject: Science – Forces and Magnets

National Curriculum Objectives

Y3/4

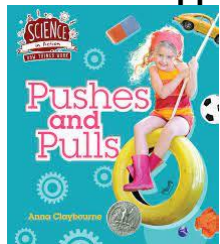
- asking relevant questions and using different types of scientific enquiries to answer them.
- setting up simple practical enquiries, comparative and fair tests.
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- using straightforward scientific evidence to answer questions or to support their findings

Y3

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

Links to our school values

Texts to support learning



(in school library)

Key Knowledge and Vocabulary

Know and explain what a **force** is.
Know that some forces need **contact** between two objects.
Identify **pushes** and **pulls** and explain the **forces** in action.

Know that forces can be measured in **newtons** using a **forcemeter**.
Understand and explain how objects move on different **surfaces**.

Know that there are forces between **magnets** and that don't need **contact** between two objects.
Know what happens when magnets are put together.

Know that some **materials** are **magnetic** and some are not.
Know and name a range of magnetic and non-magnetic materials.
Understand how to group objects on the basis of whether or not they are magnetic.

Know some uses for magnets.