

Forces

Year Three Spring 1

Conflict

Prior Knowledge

EYFS: Exploring magnetism

Year 1: Everyday materials and their properties

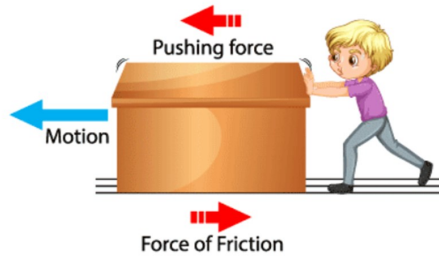
Year 2: Everyday materials and their properties

Where next? Future learning

Year 4: States of matter, electricity

Year 5: Properties of materials, forces

Year 6: Electricity



My Component Knowledge:

Lesson 1: I can explain what a force is.

Lesson 2: I can understand that gravity is the force that pulls things towards the centre of the earth.

Lesson 3: I can understand what friction is.

Lesson 4: I can investigate friction using a fair test.

Lesson 5: I can understand the forces of air resistance and water.

Lesson 6: I can apply my understanding

My Composite Knowledge:

I can define forces as pushes and pulls exerted on an object. I can give examples of different forces used on a daily basis. I can understand the forces of friction, air resistance and water resistance

My Powerful Knowledge:

I understand that more than one force acts upon an object at the same time. I can explain what simple experiments tell us about different forces I understand how to conduct and evaluate a fair test.

Key Vocabulary

Tier 1: push, pull, paper, sandpaper, cardboard, fabric

Tier 2: air resistance, water resistance, forces, fair test

Tier 3: friction, exert, variable, conclusion, evaluation

Working scientifically

I can set up simple practical enquiries, comparative and fair tests.

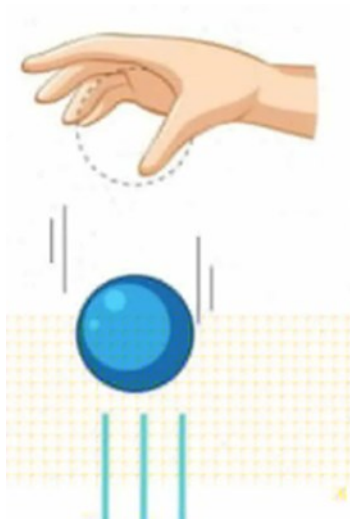
I can report on findings from enquiries, including oral and written explanations, displays or presentations.

I can ask relevant questions and use different types of scientific enquiries to answer them.

I can gather data and take accurate measurements using standard units

I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.

I can report on findings from enquiries including oral and written explanations, displays or presentations.



What is gravity?

How can we investigate friction?



What is a force?