

Knowledge Progression

What is a force?

Can I explore the effect that gravity has on objects?

Can I explain how air resistance affects moving objects?

Can I explain the effects of water resistance?

Can I explain the effects of friction on a moving vehicle?

Can I investigate the effects of friction created by different materials?

Can I explain how different mechanisms work?

Can I design my own mechanism for a given purpose?

Year 5

Forces

Science Knowledge Organiser

Knowledge Skills Vocabulary



Curriculum Coverage

- Observe how forces act in real life scenarios
- Find out and describe different forces and what forces are at play in real life scenarios

Skills Progression

- describe observations using scientific vocabulary
- suggest how to find things out
- identify key features
- ask questions
- use first hand experiences to answer
- begin to suggest improvements in work
- Be able to conduct an experiment independently

Scientific vocabulary

Push, Pull, Gravity, Air Resistance, Water Resistance, Sir Issac Newton, Newton Metre, Newtons, Force, Galileo, streamline, matter, weight, prediction, investigation, measure, observe, variables, results.

Scientific enquiry

How does gravity effect different objects? Is mass the same as weight? Who was Sir Isaac Newton?

TYPES OF FORCE

