

Research Guide

Year 7 Science

Forces Investigation.

Library catalogue

Search under the following subject headings:

- Electricity and Magnetism
- Magnets
- Buoyancy
- Force

Browse the shelves at these numbers:

- 531.11
- 538
- 551

Online Resources

1. World Book Online

Access World Book Online via the Avila Library website (Go to 'Online Resources' – 'World Book Online')

Go to 'Student' to access to student website. Search under the following headings:

- Force
- Buoyancy
- Magnetism
- Lever
- Air resistance

2. Weblinks

Access Weblinks via the Avila Library website (Go to 'Online Resources' – 'Websites' – 'Weblinks')

Search under the following subject headings:

- Electrostatics
- Buoyancy
- Magnetism
- Levers
- Force

3. [Clickview](#)

Access Clickview via the Avila Library website (Go to 'Online Resources' – 'Websites' – 'Clickview')

You will need to logon to Clickview using your student contacts so you can access the following clips.

Buoyant Force (5:27 mins)

Learn about buoyant force exerted by a liquid. The clip will define buoyant force and explain the reason for the occurrence of the buoyant force applied by a liquid on an object submerged in it.

<https://clickv.ie/w/OoBj>

Buoyant Force and Flotation (5:04 mins)

Explains how a buoyant force helps an object to float or sink. This clip explains the various forces that act on an object when it's immersed in a liquid and describes the various situations in which an object floats or sinks.

<https://clickv.ie/w/JpBj>

Force and Pressure (42:40 mins)

Introduction to the different types of force pressure that exist in our world. Learn about contact and non-contact forces, atmospheric and liquid pressure, and how force and pressure are applied in our lives.

<https://clickv.ie/w/aqBj>

Magnetic Force (25:56 mins)

This program uses experiments, graphics and footage of applications of magnets and electromagnets to introduce concepts of magnets and magnetism.

<https://clickv.ie/w/iqBj>

Electromagnetism Part 1: Electric fields, EM fields, motor effect (28:52 mins)

<https://clickv.ie/w/kqBj>

Magnetism (26.33 mins)

Bill Nye, the science guy, shows all kinds of unexpected places where magnets can be found. In fact, the Earth itself is a huge magnet! Find out how to make a compass and why opposites attract.

<https://clickv.ie/w/mqBj>

Levers (4:50mins)

This clip covers the different types of levers and their examples.

<https://clickv.ie/w/a1Bj>

Gravity and Air Resistance (3:26 mins)

In this clip students will learn about gravity which is a universal force, what it depends on and what are its effects.

<https://clickv.ie/w/e1Bj>