## Subject:

Autumn Term

# Physics (AQA 8463)



## KS4 - Year 10 Curriculum Overview

Topics being taught

Hooke's Law

**Balancing Forces** 

Momentum

Pressure in Fluids

What you will be assessed on

**Stepping Stones** 

Hooke's Law

Term

Balancing Forces

Milestone

- Year 9 Physics
- Hooke's Law, Balancing Forces, **Moments**

How you can support at home

Use the online PhET Hooke's Law Simulation

Use models and Jenga blocks to investigate how to change the stability of objects

Use the online PhET Collision Lab simulation to investigate momentum

Research on how submarines are designed to sink and float

#### CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

Topics being taught

Behaviour of Gases

Thermal Physics

Electromagnetic Waves

What you will be assessed on

**Stepping Stones** 

- Pressure in fluids
- The Gas Laws

Milestone

W

Term 5

- Year 9 Physics
- Hooke's Law, Balancing Forces, Moments, Pressure, Gases, Light

How you can support at home

Use the online PhET Gas Properties simulation

Watch the Cosmos episode "Hiding In The Light"

Research the work and life of Ibn Al-Haytham

Look around your home for the different uses of the EM spectrum

### EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS

Topics being taught

Static Electricity

**Building Electrical Circuits** 

What you will be assessed on

**Stepping Stones** 

- Static Electricity
- Circuits

Final Exam

- Year 9 Physics
- Year 10 Physics

How you can support at home

Use the online PhET DC Circuit Lab to investigate circuits

Watch the documentary Shock And Awe by Jim Al Khalili

Demonstrate static electricity at home with balloons and jumpers

Prepare flash cards and knowledge organisers for revision

Summer Term