Subject:

Autumn Term

Physics (AQA 8463)



KS: 4 Year 9 Curriculum Overview

Topics being taught

Wave Properties

Light Waves

Sound Waves

Energy Transfers

What you will be assessed on

Stepping Stones

- Wave Properties
- Reflection and Refraction

Milestone

Term

- Wave Properties
- Light and Sound

How you can support at home

Check students know definitions wavelengths, frequency etc...

Use simulations on PhET website to investigate sound and light

Investigate examples of light reflection and refraction in the home

Watch the documentary The Symphony of Physics by Helen Czerski

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

Topics being taught

Power and Efficiency

Generating Power

Describing Motion

Resultant Forces

What you will be assessed on

Stepping Stones

- Energy Transfers
- Generation Methods

Milestone

3 3

- Wave Properties, Light and Sound
- **Energy Transfers and Generating Power**

How you can support at home

Use a smart meter to monitor home energy use

Look at the purchase and fuel costs of electric and petrol cars

Use the Energy Skate Park simulation on the PhET website

Investigate the life and work of James Joule

EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS

Topics being taught

Forces and Motion

Newton's Laws of **Motion**

Stopping Distances

What you will be assessed on

Stepping Stones

- Motion Graphs
- Forces

Final Exam

• All of Year 9 Physics

How you can support at home

Use the Forces and Motion simulation on the PhET website

Watch the documentary series Forces Of Nature by Brian Cox

Research the life and work of Isaac Newton

Make flash cards and knowledge organisers for revision

Summer Term

Spring Term