

Subject:

Physics



HECKMONDWIKE
GRAMMAR SCHOOL

KS3 - Year 8 Curriculum Overview

Topics being taught

What you will be assessed on

How you can support at home

Autumn Term

The Solar System
Stars and Galaxies

Static Electricity
Electrical Circuits

Term 1

Stepping Stones

- Solar System
- Building Circuits

Use apps like Google SkyMap to observe the planets and stars

Look at the news for images from the JWST

Term 2

Milestone

- Year 7 Physics
- Solar System, Stars and Galaxies

Watch documentaries such as Cosmos or starring Brian Cox

Demonstrate static electricity in the home with jumpers and balloons

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

Topics being taught

What you will be assessed on

How you can support at home

Spring Term

Electrical Circuits

Magnets

Term 3

Stepping Stones

- Series Circuits
- Circuit Rules

Use the online PhET DC Circuit Lab to investigate circuits

Build small circuit kits and describe how they work

Term 4

Milestone

- Year 7 Physics
- Solar System, Stars and Galaxies, Electrical Circuits

Watch the documentary Shock And Awe by Jim Al Khalili

Look for magnets and how they are used around the home

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

Topics being taught

What you will be assessed on

How you can support at home

Summer Term

Electromagnetism

Practical Investigation Skills

Term 5

Stepping Stones

- Domain Theory of Magnets
- Electromagnets

Look for electromagnetic devices around the home.

Research how MRI machines are used in medical diagnoses

Term 6

Final Exam

- Year 7 Physics
- Year 8 Physics

Use BBC Bitesize to prepare for the upcoming exams

Prepare flash cards and knowledge organisers for revision