

Doha British School – Wakra

Physics

Curriculum Road Map



Intent

- To develop a strong understanding of the world & to acquire scientific KUS
- To gain an understanding of scientific processes & the uses and implications of science, today and for the future
- To develop and use a range of skills including observations, planning and investigating

In Year 11...

- I will discover how engineers use a magnet moving in a coil to produce an electric current and how this can produce movement
- I will explore motions in the universe and stellar evolution
- I will understand the properties of solid, liquid and gases and how density and pressure impact them
- I will learn about radioactivity of particles and their applications
- I will apply a detailed understanding of Mathematical skills across the topics taught

In Year 10...

- I will explore the concept of Forces and motions
- I will investigate how forces cause movement, change shape and the impact of momentum.
- I will learn how waves carry energy from one place to another, can carry information and can be used in modern technologies
- I will learn how current, voltage, charge and resistance effects the flow of electricity
- I will evaluating different energy resources to produce electricity
- I will use my mathematical skills to carryout calculations

In Year 9...

- I will investigate motions on Earth by looking at forces in equilibrium and analysing speed with distance-time graphs
- I will explore Space by looking at the stars and galaxies
- I will be investigating light waves, understanding how energy is transfer and how it changes
- I will develop my cross curricular Maths skills to re arrange equations relating to phenomena in Physics

In Year 8...

- I will learn about gravity, electrostatic charge and pressure
- I will explore the uses and strengths of magnets and electromagnet
- I will explore how electrical circuits work
- My specialist vocabulary will be extended and I will be expected to use this when describing and evaluating processes
- I will carry out investigations, predicting results and represent our findings using appropriate charts and graphs – describing and explaining patterns in results

In Year 7...

- I will investigate the different types of forces can cause change
- I will explore sound and research how the ear functions
- I will use mathematical skills to calculate turning forces and speed of sound
- I will explore how energy is transferred, identifying useful and useless energies
- I will be challenged to use technical terminology accurately and precisely and build up a specialist vocabulary



DOHA
BRITISH
SCHOOL