PHYSICS Learning Journey KS3 – KS5

If you meet minimum requirements for BTEC Applied science (Level 3) you will study several modules of Physics theory and practical skills.

BTEC Applied Science is a combination of the 3 sciences applied in practical contexts

A Levels Exams !

Year 13

By this stage in **Year 13**, you will not only be confident learners but also develop a critical understanding of the concepts in Physics beyond the exam specifications. You will learn to research independently, critically analyse and evaluate experiments that you carry out in such as **Astrophysics, Atomic Physics and Medical Physics.**

Year 1 of your A Level Physics, how exciting! This year you will focus on bridging the gap between GCSE and A-level adapting to new styles of questioning, enhanced skills for practical work and significantly more demanding level of mathematics. This year will lay the strong foundation for in-depth learning of concepts in Physics by learning about **Mechanics, Materials, Waves and Quantum Physics**

Year 12

GCSE Exams!

In **Year 10,** the very important topics **of Forces and Motion will be covered** where you will undertake calculations and plot graphs of moving object. The topics of **Electricity and Waves** will also be covered in detail with a significant amount of **practical work** being carried out, on series and parallel circuits as well as the classic ripple tank experiment for waves.

Year 11

By the end of Autumn term in **Year 11**, you would have covered the last topic of **Electromagnetism**. This topic will help you learn how loudspeakers and magnetic switches work. If you do opt for the Triple Science, you will now start learning about the most fascinating topic of **Space Physics**, learning about the evolution of our Universe.

Year 10

Double or Triple Science?

Year 9 is a crucial year as you will make a transition from learning the **foundations of Physics** to not only reinforcing those concepts but also making deeper progress with the theoretical concepts. You will learn about different forms of **Energy** and **Energy Transfers**. The topics of **Particle model** and **Radioactivity** will see us undertaking interesting experiments with radioactive sources and infra-red radiation.

In **Year 8**, we stretch your knowledge of Physics further and introduce you to more demanding topics of **Waves,** learning about their important properties. Further, you will also learn about **Magnetism and Electricity.** You will carry out practical work on how to build **circuits** and make **electromagnet**s!

Year 9

Year 8

welcome

Year 7

Welcome to learning Secondary School Physics! This year we will primarily focus on introducing the key fundamental topics of **Forces** and **how they are measured.** You will also be learning about different forms of **Energy** and how **heat energy** is transferred.