

Physics

A Level

Topics Studied

Mechanics
Materials
D.C circuits
Waves and optics
Radiation and particle physics
Fields
Thermal physics
Capacitors
Radioactivity and nuclear physics

Entry Requirements

Minimum 5 GCSEs at Grade 4 or above
Including at least grade 6 in Maths and Physics (or Combined Science 6 6)

Course Description

Physics encompasses the study of the Universe from the largest galaxies to the smallest subatomic particles. It is crucial to understanding the world around us, the world inside us, and the world beyond us. It is the most basic and fundamental Science.

Physics challenges our imaginations and leads to great discoveries, like computers and lasers, which lead to technologies which change our lives – from healing joints, to curing cancer, to developing sustainable energy solutions. It is only in Physics that you will find yourself thinking about everything from how the Universe started to how a bridge stays up. You will study topics including mechanics, materials, D.C. Circuits, waves and optics, radiation and particle physics, fields, radioactivity and nuclear physics, thermal physics and capacitors.

Our STEM club complements the Science courses by allowing you to develop your own practical project and maybe even gain a Crest Award.

"You get to understand, not just know; you learn the reasons behind a lot of content you were just told at school."

Sam, previously St Joseph's Catholic School



100%



40%