Corfe Hills School

High Expectations | Exceptional Individuals

Physics

Room: L2

What the Students Say

"Physics-it pulls you in like gravity"
"A Level Physics has grown my understanding of how life works. I want to work in physics for my career"
"Physics - it crackles like an electron"

What Is This Course About?

Physics is a challenging subject. A Physics student explores qualitatively and quantitatively the cause-and-effect relationships of 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 with concepts such as relativity and quantum phenomena, and it leads to great discoveries, like computers and lasers, that lead to technologies which change our lives — from healing joints, to curing cancer, to developing sustainable energy solutions.

What Will I Learn?

The A Level course has several modules:

Measurements and their errors	Electricity
Particles and radiation	Further mechanics and thermal physics
Waves	Fields and their consequences
Mechanics and materials	Nuclear physics

With an additional optional module from:

Astrophysics	Medical physics	Engineering physics	Turning points in physics	Electronics.

Where Will It Take Me?

Physics is valued because it is demanding. An A Level in Physics shows a student who can think extensively, who is an adept mathematician and who can handle complex and sometimes counter-intuitive ideas. Many academic establishments and businesses seek Physics students because of their transferrable skills of creative thought and mathematical dexterity. Physics brings a broad perspective to any problem because physicists learn how to consider any problem beyond the restrictions of context. This inventive thinking makes physicists desirable in any field.

Physics is a great foundation for careers in:

Journalism	Law	Engineering	Computer Science
Finance	Medicine	Astronomy	Biology

Even when the job market is slow, physicists get well-paying job offers. Employers know that a physicist brings additional skills with expertise and pay accordingly.

What Other Opportunities Exist Outside of Class?

Physics is around us continually and hence many opportunities arise for learning outside the classroom. Trips in previous years have included CERN, exam study lectures and theme parks for the study of mechanics.