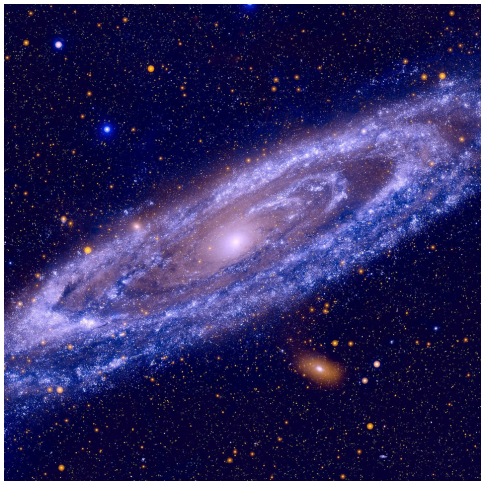
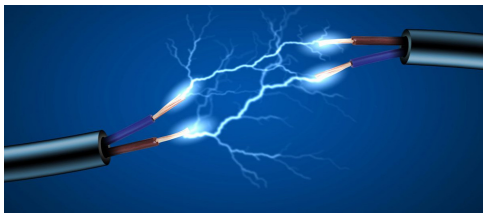
A Level Physics

DEYES HIGH SCHOOL

Course Details and Assessment

A Level Physics builds upon both Physics/Science and Maths at GCSE. The subject content is relevant to real world experiences and students find it interesting and rewarding to learn. Lessons are presented in a straightforward, methodical and engaging way. This allows students to develop useful skills that Universities, Colleges and Employers want. On top of the usual lessons, students will receive comprehensive booklets covering knowledge for every topic as well as plenty of exam questions to help them practise.





The course will cover the following topic areas:

In year one you will study:

- Measurements and Errors
- Particle Physics
- Waves
- Mechanics and Materials
- Electricity

In year two you will study:

- Further Mechanics
- Thermal Physics
- Fields and their consequences
- Nuclear Physics
- Optional topic - Astrophysics/Medical Physics

How is the course assessed?

Year One

Internal topic tests and mock exams.
Each topic is taught by a specialist physics teacher and assessment is done after each topic.

AS exams can be taken at the end of year 1.
Students can opt to sit AS exams in May/June of year 12 if they no longer want to do the full A Level course.

Grading - A* - E

Year Two

Paper 1 - A Level - 2 hours
Year 1 Content

Paper 2 - A Level - 2 hours
Year 2 Content

Paper 3 - A Level - 2 hours
Optional topic and data analysis questions

Students will also complete 12 practicals over the 2 year course which are internally assessed, but do not count towards the overall grade.

Grading - A* - E

"Physics is an engaging subject as most topics we talk about are practical and relate to real-life situations"

A Level Physics

Where can an A Level in physics lead me?

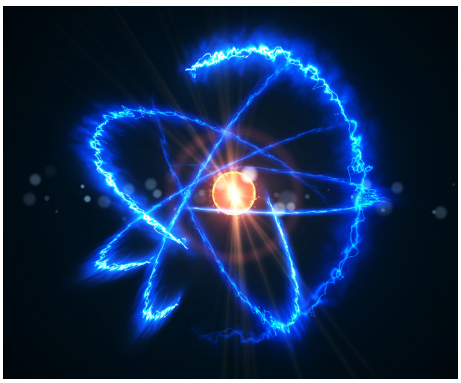
A Level Physics is a highly valued, facilitating subject. It is useful for any career/university application but is essential for those aiming for careers relating to Engineering. It is also highly desirable for students wishing to enter courses related to medicine, computing, economics or maths.

Possible careers include...

Business - Engineer - Economist - Teacher - Forensics
Nuclear Technology - Computing - Medicine

What key skills do I need?

Physics provides quantitative and analytical skills needed for analysing data and solving problems in the sciences, engineering and medicine. Physics also supports economics, finance, management, law and government policy. Physics is the basis for most modern technology, for the tools and instruments used in scientific, engineering and medical research and development. Physics helps you to help others. Doctors that don't understand Physics can be dangerous, as Medicine without physics technology would take us back to the Victorian era!



Entry Requirements

To be able to study A Level Physics, you must achieve:

- GCSE grades 6/7 in Physics/Science
- GCSE grades 6/7 in Maths
- Students are strongly encouraged to take A-Level Maths. A second science subject is also very useful.

Exam Board

AQA

Still got questions?

Speak to Mr Painter for more information

D.Painter@deyeshigh.co.uk