# Physics National 5

### Award Received

National 5 Physics is graded A –D

## Entry Level: What do I need to do it?

Entry into N5 Physics will normally depend on your attainment in the S3 Physics course.

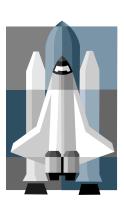
Your S3 Physics teacher will advise you on whether N5 is an appropriate level of study for you.

## Course Content: What will I learn?

### Electricity and Energy

Conservation of energy - how energy changes from one form into another. Specific heat capacity- how heat energy is stored in different materials. Gas laws and kinetic energy - how gases are affected when you change temperature, pressure and volume. Static electricity, ac and dc electricity, current voltage and resistance. Practical electrical and electronic circuits.

Power and energy.



### Dynamics and Space

Velocity, acceleration, forces, Newton's laws, projectile motion. Space exploration and cosmology – hazards and benefits of exploring space. Satellites and telescopes. How old the universe is and the evidence for this.

### Waves and Radiation

Waves and how they move. The electromagnetic spectrum and its uses. Visible light. Nuclear radiation and safety. Fission and fusion reactions.







### Teaching Methods: What will I do?

Much of the course will be teacher-led but you will also be involved in a variety of tasks including practical experiments and investigations, written work, research and presentation tasks.

#### Assessment: How will I be assessed?

You will be assessed as follows:

\* End of Unit Tests, covering knowledge and understanding and problem solving

\* Final exam, covering knowledge and understanding and problem solving

\* Assignment, including researching and reporting on a relevant topic of your choice

#### Homework.

You will be given regular homework tasks, eg practice exam questions, research and revision tasks. You should also do background reading from your text book.



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#### Progression in the Senior Phase.

High achieving and committed N5 Physics students would be recommended to progress to the Higher level of study.

The National 5 Practical Electronics course is recommended if you wish to broaden your knowledge and skills.

