Curriculum Journey

KS4 & KS5 Physics

Careers

University,
Apprenticeship
Astrophysics,
Aerospace,
Engineering,
Research,
Scientist,
Data Science

NEA

Required Practicals

Endorsement at KS5

Next Steps

A level Biology, Chemistry, Physics, BTEC Forensic Science

Skills for Life

Independence
Resilience
Problem solving
Creativity
Time management
Communication
Logical thinking

A-Level Physics Papers 2 & 3

A level Physics

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Components

Fields and their consequences
Nuclear Physics
Options: Astrophysics or Engineering or Medical Physics or Turning Points

A-Level Physics Paper 1

Components

Measurements and their Errors
Particles and radiation
Waves
Mechanics and Materials
Further mechanics and thermal physics

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GCSE Physics

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Components

Forces & Motion
Magnetism
Electromagnetism
Light & Sound
Space

GCSE Physics paper 2

Components

Energy & Motion
Electricity
Nuclear
Particle Model
Domestic Electricity
Moments and Pressure

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GCSE Physics paper 1

Skills and Knowledge Building

Mathematical skills:
6.1 Arithmetic and numerical computation
6.2 Handling data
6.3 Algebra
6.4 Graphs
6.5 Geometry and trigonometry

Practical Skills:
Demonstrate knowledge and understanding of scientific ideas, processes, techniques and procedures

Apply knowledge and understanding of scientific ideas, processes, techniques and procedures:in a theoretical context in a practical context when handling qualitative data when handling quantitative data Analyse, interpret and evaluate scientific information, ideas and evidence, including in relation to issues, to:make judgements and reach conclusions develop and refine practical design and procedures.

Skills and Knowledge Building

AO1: Demonstrate knowledge and understanding of scientific ideas; scientific techniques and procedures.

AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.

AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.

Independence Challenge Resilience
Kind Supported Happy

ST JOHN'S MARLBOROUGH