

CAREERS

INFORMATION AND GUIDANCE

PHYSICS



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What are the key skills?

Core Academic Skills:

- Problem-solving: Breaking down complex questions and applying logic.
- Mathematical reasoning: Using equations, graphs, and data to reach conclusions.
- Analytical thinking: Evaluating information and evidence critically.

Scientific and Technical Skills:

- Experimental skills: Planning, conducting, and analysing practical experiments.
- Use of technology: Using scientific instruments and data analysis tools.
- Applying theory: Understanding how physics explains real-world phenomena and technologies.



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Transferable Skills:

- Critical thinking: Questioning assumptions and analysing reliability.
- Communication: Explaining complex ideas clearly and confidently.
- Teamwork: Collaborating effectively in experiments and discussions.
- Resilience: Tackling challenging concepts with persistence and independence.

Future Value:

- Physics builds logical, creative, and analytical thinkers.
- Valued in careers such as:
 - Engineering
 - Computing and AI
 - Medicine and healthcare
 - Finance and data analysis
 - Research and technology
- Opens doors to a wide range of university courses and professional paths.



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WHAT CAREERS LINK TO PHYSICS?

Studying Physics isn't just about equations and experiments — it's about understanding how the world works and using that knowledge to make a difference.

Physics is the foundation of engineering.

Our students go on to study or work in areas such as:

- Mechanical, Civil, and Electrical Engineering – designing and building everything from bridges to robots.
- Aerospace and Automotive Engineering – working on aircraft, spacecraft, and future transport systems.
- Renewable Energy – developing sustainable technologies to power the world.

With its focus on **logic and problem-solving**, Physics is a perfect route into:

- Computer Science and Artificial Intelligence
- Software and Game Design
- Data Analysis and Cybersecurity

(Physics students are great coders — they already think like computers!)



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Physics underpins many advances in healthcare.

Students can go on to careers such as:

- Medical Physics – developing imaging and radiotherapy equipment.
- Engineering in Medicine – designing prosthetics or surgical robots.
- Medicine – with Physics as a strong foundation for scientific thinking.

The analytical and numerical skills learned in Physics are prized in:

- Finance and Economics
- Business Strategy and Consultancy
- Scientific Research and Academia

Employers love Physics students for their ability to solve complex problems and think independently.

Physics students go on to make a difference — whether it's:

- Tackling climate change
- Developing new technologies
- Exploring space
- Teaching and inspiring the next generation

A Level Physics gives you the tools to shape the future.



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SCIENCE BEYOND ST HILDAS

To prepare our Key Stage 5 students for entrance exams and interviews for science based courses in further education, with particular emphasis on Medicine, Veterinary and Dentistry

- BMAT preparation in the form of tutorials and seminars
- CAT preparation in the form of tutorials and seminars
- PAT preparation in the form of tutorials and seminars
- Coaching for personal statements and preparation for interviews
- Seminars with current medical students



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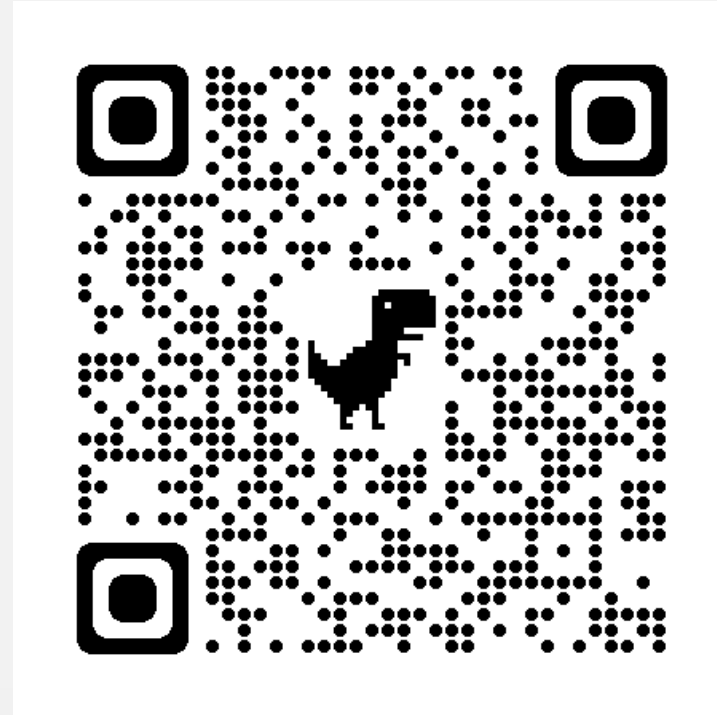
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Progression and Career Opportunities

- Astronomy and Space
- Climate science and meteorology
- Education
- Engineering
- Lasers and photonics
- Medical Physics and digital healthcare
- Renewable energy
- Robotics and AI
- Formula 1 and 2
- VFX and gaming
- Finance and Law



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For more information on careers please scan the QR code on screen.

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