

# Physics

**Head of Physics: Mr Adam Knights**  
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## Why King's Facilities

- Four dedicated teaching laboratories
- Well resourced for practical experiments

## Highlights

- A-Level (Summer 2019) 42% A\*-A, 58% A\*-B

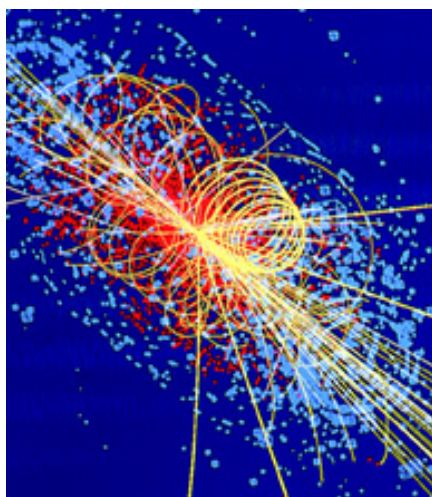
## Academic Performance

**74% A\*-C**

Physics A Level

**97% 9 - 4**

Physics IGCSE



## Physics at King's

- A long and distinguished history of excellence and innovation in physics teaching.
- Physics specialists teach physics throughout the school as a separate science.
- A common feature of our approach to the subject throughout the school is that physics is above all a practical subject. Practical work in which students learn and experience by doing forms the heart of the physics curriculum.
- Excellent exam results
- A strong record of students gaining places to read physics/engineering at Oxford and Cambridge with support available to Oxbridge applicants in the run up to their admissions tests (Oxford PAT or Cambridge ENGAA).
- At A Level students have two teachers in sets no larger than 16.

## A level Physics

- A very strong and popular A level choice at King's. In 2019-20 we have 31 students in the Lower Sixth in 3 sets, 19 in Upper Sixth in 2 sets.
- We follow the AQA A level course. As well as covering the core Physics topics like Mechanics, Electricity, Waves, Radiation and Particles, Thermal Physics, Fields and Nuclear Physics, there are also options on Medical Physics, Astrophysics,

Quantum theory and relativity. There is no coursework, but practical work is at the heart of Physics at King's. Students are required to complete 12 compulsory practicals in order to gain a practical endorsement to their A level.

- We strongly recommend that A level physicists take A level Mathematics.
- Further Mathematics is also recommended if a student intends to read Physics or Engineering at university.
- There are three written papers at the end of year 13. There is no coursework.
- Support available from online resources eg. A Level Physics Online and Isaac Physics.

## Extra-Curricular Activities

- Science Club
- Engineering Education Scheme
- British Physics Olympiad
- Senior Physics Challenge

## Department Staff

Mr Adam Knights (Head of Department)

Mr Tom Pearson

Mr Adam Hooper

Mrs Alison Gamble

Dr Cattleya Petchsingh