

Physics

At Bootham School

WHY STUDY PHYSICS?

- Physicists look for the hidden laws as to how matter, forces and energy behave
- National shortage of people to fill Science/Engineering roles
 - Excellent employment prospects after university
- Interested in the universe today, the beginning of time and everything inbetween?
 - This is the subject for you
- One of the Russell Group universities' 'facilitating' subjects

DFE DATA 2019 - MOST LUCRATIVE A LEVELS (6 YEARS AFTER COMPLETION)

1. Further mathematics (MEI): £25,600
2. Further mathematics: £25,500
3. **Physics B (advancing physics) £24,100**
4. **Physics B: £24,000**
5. Economics: £23,900
6. Engineering (single award): £23,900
7. **Physics: £23,700**
8. **Physics A: £21,600**
9. Design and technology: systems and control technology: £22,700
10. **Physics B: physics in context: £22,600**

PHYSICS AT BOOTHAM

- A truly unique, caring and supportive environment
- More lesson time than most schools
- Outstanding extra curricular program
- Top notch equipment
- Small class sizes
- Experienced Physics teachers with a great track record

Revision /
Start A2
course

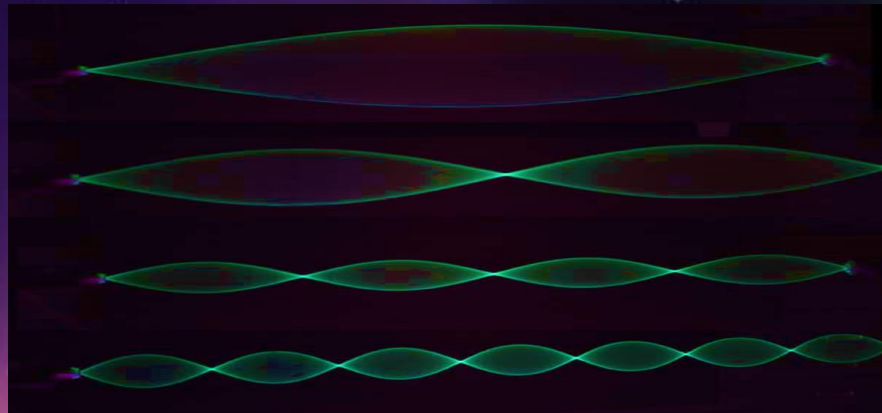
AQA PHYSICS CONTENTS YEAR 12

(1 Measurements and their errors)

2 Particles and radiation



3 Waves



4 Mechanics and materials



5 Electricity



AQA PHYSICS CONTENTS YEAR 13

(1 Measurements and their errors)

• 6 Further mechanics and thermal physics



• 7 Fields and their consequences



• 8 Nuclear physics



• 9 Astrophysics



THE EXAMS

Paper 1	+	+
<p>What's assessed</p> <p>Sections 1 – 5 and 6.1 (Periodic motion)</p>	<p>What's assessed</p> <p>Sections 6.2 (Thermal Physics), 7 and 8</p> <p>Assumed knowledge from sections 1 to 6.1</p>	<p>What's assessed</p> <p>Section A: Compulsory section: Practical skills and data analysis</p> <p>Section B: Students enter for one of sections 9, 10, 11, 12 or 13</p>
<p>Assessed</p> <ul style="list-style-type: none"> • written exam: 2 hours • 85 marks • 34% of A-level 	<p>Assessed</p> <ul style="list-style-type: none"> • written exam: 2 hours • 85 marks • 34% of A-level 	<p>Assessed</p> <ul style="list-style-type: none"> • written exam: 2 hours • 80 marks • 32% of A-level
<p>Questions</p> <p>60 marks of short and long answer questions and 25 multiple choice questions on content.</p>	<p>Questions</p> <p>60 marks of short and long answer questions and 25 multiple choice questions on content.</p>	<p>Questions</p> <p>45 marks of short and long answer questions on practical experiments and data analysis.</p> <p>35 marks of short and long answer questions on optional topic.</p>

A LEVEL RESULTS

Summer 2019

- A/A* 58%
 - A* - C 88%
 - A* - E 100%
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- Typically $\frac{1}{4}$ to $\frac{1}{2}$ of a grade “value added”

THE FAMOUS PHYSICIST RICHARD FEYNMAN ON . . .

Physics

- *We do not know what the rules of the game are; all we are allowed to do is to watch the playing. Of course, if we watch long enough, we may eventually catch on to a few of the rules. The rules of the game are what we mean by fundamental physics*

Biology

- *There is nothing that living things do that cannot be understood from the point of view that they are made of atoms acting according to the laws of physics*

Chemistry

- *All theoretical chemistry is really physics; and all theoretical chemists know it*

But I guess he was a little biased . . .