

## James



### Maths and Physics Tutor

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#### Education

University of Cambridge: BA Natural Sciences (2012-15); MSci Materials Science (2015-16); PhD Materials Science (2016-20)

A-levels: Maths (A\*) Further Maths (A\*) Physics (A\*) Chemistry (A\*)

GCSEs: Maths (A\*) Statistics (A\*) Physics (A\*) Chemistry (A\*) Biology (A\*) English Language (A\*) English Literature (A) French (A\*) ICT (A\*A\*)

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#### Tutoring Experience

At Cambridge I gained extensive experience teaching undergraduates in Materials Science through the Cambridge supervision system (small-group or sometimes one-on-one teaching). I have also interviewed candidates for Cambridge undergraduate admission. This has given me a thorough understanding of the admissions process at Cambridge.

I have taught undergraduates one-on-one in Cambridge for four years, and previously I have tutored students taking A-Level Mathematics a year early.

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#### Testimonials

"I really enjoyed our sessions. I am very grateful for the amount of work you put into them, and furthermore I really feel like I got a lot out of them."

- (First year undergraduate in Materials Science)

"We are very happy with our tutor, James, who has been helping our son with his A Level Maths and Further Maths. His tutoring is of a very high standard. His lessons are always student centred and he encourages and promotes analytical thinking, getting the student to think how to solve the problem, rather than simply offering the ready solution. Whenever we need to contact him, he replies very promptly. He is approachable, friendly and full of encouragement. Our son is really enjoying his lessons with James and now wants to continue with him throughout his A Level course. This for me speaks volumes." - (Parent of A Level student)

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### **Maths and Physics Tuition Approach**

I encourage students to take a stab at what the main elements of the problem are, and what we might expect the answer to be from first principles and the constraints of the problem. I take students through the process step by step, asking them to anticipate where each step is going. I then get them to think about whether the final answer makes sense with what we expected initially. By asking the student the right questions, I can understand what their thought process is and where they might be struggling.

### **Admissions Tuition Approach**

I can offer mock interviews, help with personal statements and admissions advice for physical science subjects at Oxbridge, in particular Natural Sciences at Cambridge. Having been through the process as a candidate and then later interviewing candidates myself, I have expertise on how to maximise your chances of a successful application.