



making physics matter



Phizzi professionals

Ragavan Nagaratnam: physics teacher

School

I studied combined science at GCSE and really enjoyed it. At A-level I did mathematics, physics, chemistry and biology. All of my teachers were great, but I was particularly impressed by my maths teacher's problem solving skills and the clarity with which he explained concepts.



What next?

At university I did natural sciences for four years. I studied all three sciences and maths in the first year and focused on physics towards the end. I did a PGCE as part of my teacher training. My plan was to leave teaching within a year or two, but I enjoyed it so much. I now can't see myself doing any other career.



Why physics?

I enjoy taking a question that at first sight might seem very complex and breaking it down into small solvable parts. This will give you the confidence and strategy to tackle head on the various problems life will throw at you.



And now?

I'm currently the lead KS5 physics teacher for a network of schools across England. It's great to see students develop – from struggling to solve simple equations to being able to use exponentials and logarithms. I enjoy taking students from knowing nothing about abstract ideas to being able to apply theories and calculations to different contexts. The highlight of this job is seeing students achieve their potential.



Physics in practice

My students are always asking me physics questions which forces me to really think hard and appreciate there is still a lot for me to learn. To prepare my students for challenging exam questions I have to come up with novel applications of physics using things I encounter in my day to day life.



Advice for young scientists

I believe it's important for young scientists to aim high, not be afraid of what others will think of you if you fail. Having taught many students I've noticed that persistence is the most important factor in success. It may take years for your hard work to pay off, but it will be worth it.

