



A fully funded programme developed by Redborne Upper School in partnership with the University of Bedfordshire.



## **Teacher Subject Specialism Training Programme – Secondary Physics. 29th October 2018 –14th June 2019**



**IOP** Institute of Physics

### **Programme Description**

**A FREE 30 week programme for :**

- **qualified teachers who are not Physics specialists**
- **teachers without QTS working in an Academy,**
- **those who are members of and have been awarded Qualified Teacher Learning and Skills status (QTLS) by the Society for Education if they have firm plans to teach secondary physics in a school or sixth form college.**

**This programme is well-established and is IOP enabled community approved.**

The programme provides participants with:

- The equivalent of 4 days intensive subject knowledge and pedagogic development at the University of Bedfordshire taking place within term time .
- The opportunity to take away lesson ideas and resources from practical and engaging face to face training.
- Access to online resources and the University library.
- Access to in-school teaching opportunities.
- Support from a Coach who is, through attendance at a face to face induction session, fully aware of their role, purpose, the programme's structure and its expectations.
- Support of an external community coach who will undertake at least 2 visits.
- A Certificate of Completion and the option to submit for M level accreditation.

Participants will be expected to complete a self- audit, some pre-course reading and undertake 2.25-3.75 hours of study per week during the programme in order to develop confidence and competence as a physics specialist

The face-to-face teaching is focused on building participants' confidence to teach difficult topics. The taught sessions include developing practical skills as well as addressing common misconceptions. We aim to inspire you with ideas on teaching physics, and enable you to develop subject knowledge through lectures, demonstrations, self-audit, discussion, practice questions, and directed reading. Mathematical skills are embedded in each session and topics covered reflect the needs of participants. The current cohort has benefited from sessions on electricity, radioactivity, waves, electromagnetism, centripetal force, medical physics, and even quantum physics. The main key stage focussed upon has been KS4 but the programme is differentiated so that those wanting to stretch into KS5 learning have been accommodated and, similarly, those with KS3 needs are supported and extended. All resources used in the sessions are available to participants and are designed for use in the classroom.

<b>Course Outcomes:</b>	Better able to teach secondary physics. Improved confidence and adeptness to teach outside of your subject specialism. A greater depth of understanding of a wider range of topics within the physics curriculum.
<b>Course Lead:</b>	Specialist staff from the University of Bedfordshire and Redborne Upper School
<b>Proposed Audience:</b>	<b>Teachers who are not Physics Specialists. This includes NQTs.</b> <u>For example.</u> A PE specialist who teaches KS3 / KS4 Physics for some periods per week and who would benefit from improving their subject knowledge & their understanding of physics learning and teaching. <u>For example.</u> A Biology specialist NQT who, as part of their NQT year, could personalise & broaden their development through gaining improved Physics subject knowledge & practical skills, widening the support they can offer to their department and enriching their own teaching experience.
<b>Date(s) and Time(s):</b>	2 full day sessions within term time and 5 twilight sessions (2-5pm) across the programme with an afternoon Celebration Event in July 2019.
<b>Venue:</b>	The University of Bedfordshire, Polhill Campus
<b>Cost:</b>	<b>Participation in these Programmes is FREE.</b> <b>BUT funding is given TO SCHOOLS with participants to assist schools in supporting their participant(s) to successful completion.</b>
<b>Additional Information:</b>	<b>FUNDING GIVEN TO SCHOOLS</b> with participants is as follows: <u>PER PROGRAMME.</u> The School will receive from Redborne Upper: ONE PARTICIPANT £250, TWO PARTICIPANTS £400, THREE PARTICIPANTS £550

**To EXPRESS INTEREST please contact Teresa Farrow on [sttfarrow@redborne.beds.sch.uk](mailto:sttfarrow@redborne.beds.sch.uk)**

PLEASE NOTE – PLACES ARE LIMITED and will be allocated on a First Come, First Served basis (following the completion of application paperwork).

*If you have any queries which cannot be addressed via email, we can arrange to call or visit.*

**Comments from previous participating schools and participants:**

***'Our participant has become a much more confident teacher and this has impacted on outcomes for the pupils he teaches'***

***'I have been able to immediately apply ideas and concepts into my teaching. The Programme has improved my confidence massively when dealing with those concepts.'***

***'This has increased the capacity we have across the school for future timetabling and staffing'***

***'Have got loads out of the programme which has had a positive impact on my teaching'***