Physics Subject Support Offered by King Edward VI Five Ways School

An established programme of activities offered to pupils and staff at all levels from primary through to post-16. For more details please contact Dan Cottle, Head of Science: dottie@kefw.org

**Teacher Subject Specialism Training (TSST) in Physics** - Department of Education funded and Institute of Physics approved program ideal for:

- An individual Science teacher looking to specialise in Physics at GCSE.
- A department looking to raise standards of learning in Physics at GCSE
- An ex-Science teacher looking to return to the profession as a Physics specialist

Focussing on Physics subject knowledge and pedagogical content knowledge – effective ways to help learners succeed in Physics to GCSE level. An emphasis on practical skills with all sessions being lab based led by experienced teachers and teacher trainers. Learning experiences in the year; 6 full days and 6 twilight sessions of group CPD, coaching/mentoring visits into your own school, action research project accredited by Birmingham City University (BCU) for 30 Masters level credits, online support, learning materials and resources provided including registration to use BCU library, ongoing skills assessment and certification upon completion.

**Physics for Non-Specialists KS3 and KS4 - Teacher CPD** (Programmes between 1 and 4 days offered focussing on either KS3 or KS4) Suitable for: trainee Science teachers and more experienced Science colleagues looking to secure deeper understanding of Physics and broaden their range of practical learning strategies. The sessions are hands on and particularly focus on challenging misconceptions and promoting understanding through active learning.

**Teaching A Level Physics Teacher CPD** (1 day) Looking to get some fresh ideas for your A level Physics teaching? New to teaching A level? The day focuses on updating subject knowledge and introducing practical strategies to engage learners of all abilities. Very much hands on - come ready to experiment and calculate!

**Primary Science Teachers CPD - Earth and Space, Electricity, Forces, Light and Sound** - These half and full day teacher CPD’s are ideally suited to Science coordinators in primary schools and focus on the new National Curriculum in Science at KS1 and 2. A series of practical, hands on activities to inspire pupils interest in the subject are undertaken and all the resources supplied in a box to take back to your school and use straight away.

**Regular Twilight CPD for Teachers.** Taking place in the 4 - 6pm post school day slot in the past year these have included: Make and Use a Cloud Chamber, Ideas for Teaching Electromagnetism, Real Physics with Fruit and Sweets, The Challenge of Quantum Reality... and more. These focussed but fun sessions also allow participants to network with a supportive network of like minded science teachers.

**SKE for ITT** An established program of parallel subject knowledge enhancement in Physics for school based trainee teachers supported by funding from the DfE. Consists of regular tutorials, taught practical sessions and independent study using provided materials.

**Gifted and Talented Workshops for students:**

**Investigative Physics for KS3 and Quantum Physics for KS4** - These sessions last approximately 1.5 hours each and challenge pupils (and their teachers) to engage in scientific discussions and ask scientific questions about the world. Both practical in nature the aim is to inspire pupils to study STEM subjects at GCSE, A level and beyond.

**Also available:**

- Bespoke in school support, mentoring and coaching for teachers and departments.
- A range of primary school Science activities e.g. 6th form led Science clubs, exciting practical lessons for Y3-6