

Developing Maths Teaching through Subject Knowledge Enhancement

for secondary teachers

Our SKE+ courses focus on developing teachers' such that they have:

- Deeper understanding of the subject
- Skills to identify key concepts and misconceptions associated with the topic
- Ability to design, present and evaluate pupil centred lessons
- Reflection and evaluation proficiency to successfully assess the impact of their teaching on pupils learning
- Confidence and ability to think like mathematicians or scientists

Our SKE+ courses will help teachers:

- Gain comprehensive understanding and depth of their chosen subject and the specialist pedagogy associated with the subject
- Build their confidence teaching their chosen subject to secondary school pupils
- Acquire the skills to become outstanding teachers
- Become clear of the criteria Ofsted uses to judge outstanding teaching
- Experience action research in practice
- Progress in their career
- Find and create inspiring ideas and activities they can use in the classroom

The course cost is funded by the Boolean Maths Hub and so is FREE to schools. For schools that take part in the course but do not contribute a short written case study of the action research, there will be a charge of £250. Please note that schools will need to cover their own supply costs, and a non-attendance without notification may carry an administration charge per session missed.

Programme outline

Session 1 (Twilight) - Introduction to PCK...going further than content knowledge alone

Session 2 (Half day) - Number audit reflection & investigating algebra through solving problems

Session 3 (Twilight) - Quadratics and inequalities audit reflection & introduction to Core Maths

Session 4 (Half day) - The story of the triangle. (From primary phase through to area using trigonometry)

Session 5 (Twilight) - GAP task feedback, audit reflection & A Level Mathematics introduction

Session 6 (Half day) - Vectors & transformation of functions.

Session 7 (Twilight) - Reflection on impact of the course, KS4 in detail & action research planning.

Two weeks later - Assignment due.

Celebration event (Twilight) - Reflection. Feedback & celebrate.

Teachers who successfully complete the course will be awarded a SKE certificate, assisting them in becoming confident and consistent outstanding teachers. It can also be used towards performance management.

All materials, lessons observed and case studies will form a comprehensive professional development package for schools to download and use to enhance other practitioners' subject knowledge.

For further information, or to reserve places, please email Linda Corbidge (linda.corbidge@clf.cabot.ac.uk), the Boolean Maths Hub administrator.