

# Mathematical Confidence and Growth Mindset *for primary teachers*

## Would you like to be more confident in teaching Maths?

This short course aims to:

- Inspire teachers to truly enjoy teaching Maths
- Build upon recent research evidence on growth mindset and brain science and the impact these can have on pupil confidence
- Develop deep content knowledge through practical teaching approaches
- Explore how children think mathematically and common misconceptions

The course cost is funded by the Boolean Maths Hub and so is FREE to schools. 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

All sessions run on Thursday afternoons at The Acorn in King's Oak Academy, Kingswood, BS15 4JT. Please note that all sessions run from 13:30 – 16:30.

#### Session 1

#### Growth Mindset and Additive Reasoning

Exploring Jo Boaler's work on Maths mindset and brain research, teachers will reflect on their values in teaching Mathematics and how we can positively influence our Maths culture in the classroom.

Understanding how addition and subtraction are linked (additive reasoning) and by exploring mental, informal and formal written, teachers will explore how we develop cardinal and ordinal understanding.

#### Session 2

#### Multiplicative Reasoning

This session explores the structures behind multiplication and division. Includes up to date content on scaling in the new national curriculum, as well as place value, decimals, percentages and ratio.

#### Session 3

#### Fractions

What is a fraction? How do we classify fractions? Calculating with, simplifying and ordering fractions. Using practical resources and visual images to support understanding.

#### Session 4

#### Progression in algebra in the primary phase

This is a practical session to enhance the teaching of algebraic thinking across the primary age range. From missing number problems and the use of Cuisenaire rods through to teaching the beginnings of formal algebra.

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, the Boolean Maths Hub administrator at [BooleamathsHub@clf.cabot.ac.uk](mailto:BooleamathsHub@clf.cabot.ac.uk)