

## AS MATHS COURSE FOR DEVELOPMENT OF MATHS TEACHERS

**Course Length:** 1 year – 2 hours per week contact time outside of the school day

**Qualification:** AS Level Mathematics (Edexcel)

**Venue:** Hodgson Academy

**Date/Time:** Weekly on Tuesdays from 4pm - 6pm starting on Tuesday 24<sup>th</sup> September 2019

**What's the cost: £200 per participant  
(Does not include examination entry fee)**

**Who's it for?** Maths specialist secondary teachers who are, or will be, delivering a substantial amount of mathematics at key stages 3 and/or 4.

**What's the aim?** To increase the mathematical fluency of teachers to a level beyond the standard secondary curriculum so that they have a depth of mathematical understanding that they can deliver the secondary curriculum with clarity, confidence and precision. This course will also provide participants with a nationally recognised current advanced mathematics qualification if they wish to take it

**What maths do I already need to access the course?** Candidates should have a strong grounding in Mathematics to GCSE standard (at least grade 6/B) or equivalent. A pre-course pack will be provided so that participants are aware of exactly which topics they are expected to have a strong grasp of prior to the taught sessions.

### **Pure Mathematics Course Content**

- Topic 1 – Proof
- Topic 2 – Algebra and functions
- Topic 3 – Coordinate geometry in the (x, y) plane
- Topic 4 – Sequences and series
- Topic 5 – Trigonometry
- Topic 6 – Exponentials and logarithms
- Topic 7 – Differentiation
- Topic 8 – Integration
- Topic 9 – Vectors

### **Applied Mathematics Course Content**

- Topic 1 – Statistical sampling
- Topic 2 – Data presentation and interpretation
- Topic 3 – Probability
- Topic 4 – Statistical distributions
- Topic 5 – Statistical hypothesis testing
- Topic 6 – Quantities and units in mechanics
- Topic 7 – Kinematics
- Topic 8 – Forces and Newton's laws

**[Visit Eventbrite to book your place](#)**