



Teaching & Learning Service

Mathematics

Alison Borthwick, Anna Hogg and Rose Keating, NIEAS Education Advisers have strong experience of **inspiring change** in mathematics teaching and learning as well as developing subject leadership. We believe in **fusing research with practice** in order to provide the best advice and support to the teachers and schools we work with.

NIEAS Mathematics leads the way in developing teachers' understanding of calculation strategies across both primary and secondary phases. Since 2006, we have researched which calculation strategies children use most successfully in all four operations. To date, six research articles have been published which are acknowledged by the mathematics community nationally.

We offer **inspiring, high quality** mathematics courses and programmes, as well as in-school training sessions which meet the needs of teachers, teaching assistants, networks, clusters and parents across all phases from EYFS through key stages 1 – 4. We also offer bespoke CPD around areas such as raising achievement for girls, developing a calculation policy, maths in context, mathematics health checks, fluency, reasoning and problem solving, fractions and much more!

NIEAS Mathematics holds the prestigious **National Centre for Excellence in the Teaching of Mathematics** (NCETM) CPD standard.

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To book bespoke CPD or In-school training session please contact
NIEAS Advice and Support Team

☎ 01603 307779 ✉ cs.nieasadviceandsupport@norfolk.gov.uk

Details of upcoming mathematics courses and programmes can be found online at

💻 <http://s4s.norfolk.gov.uk/>

Continuing Professional
Development
Standard

National Centre
for Excellence in the
Teaching of Mathematics



Norfolk Integrated Education
Advisory Services

Professional Development
Accredited Lead

National Centre
for Excellence in the
Teaching of Mathematics

Programmes and Courses

Title	Phase	Length
Norfolk Mathematics Conference	Primary & Secondary	1 day
Primary Mathematics Professional Networks	Primary	1 day per term
Secondary Mathematics Professional Networks	Secondary	1 day per term
Improving Mathematics Programme for Primary Teachers	Primary	3 days
Improving Mathematics Programme for Teaching Assistants	Primary & Secondary	3 days
Improving Mathematics Programme for Secondary Teachers	Secondary	3 days
Outstanding Mathematics Programme for Primary Teachers	Primary	2 days
Outstanding Mathematics Programme for Secondary Teachers	Secondary	2 days
Mathematics Toolkit: <i>Fluency, Reasoning and Problem solving</i>	Primary & Secondary	1 day
Mathematics Toolkit: <i>Calculation strategies and Place value</i>	Primary & Secondary	1 day
Mathematics Toolkit: <i>Fractions</i>	Primary & Secondary	1 day
Mathematics Toolkit: <i>Algebra</i>	Primary & Secondary	1 day
Mathematics Toolkit: <i>Mastery in Mathematics</i>	Primary & Secondary	1 day
Maths café	Primary	1 day
Maths outdoors	Primary	1 day
MaST: Cohort 6 and Cohort 7	Primary and KS3	2 residential weekends and 6 1/2 day sessions per year

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Bespoke CPD In-school

Title	Length
Developing a school/cluster calculations policy	2 - 3 days
Supporting the subject leader to implement the New Mathematics National Curriculum/GCSE	1 – 4 days
Mathematics Review and Action Planning	1 - 3 days
What does good teaching look like in mathematics?	2 – 3 days
What does outstanding teaching look like in mathematics?	1 – 2 days
Raising attainment for girls in mathematics	0.5 – 1 day
1-to-1 Maths Subject Leader development	0.5 – 3 days
1-to-1 Teacher development	0.5 – 3 days

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Training Sessions In-school

Title	Phase	Length
Fluency, Reasoning and Problem solving	Primary & Secondary	1 day <i>or</i> 3 twilights
Calculation strategies and place value	Primary & Secondary	1 day <i>or</i> 2 twilights
Tackling Algebra	Primary & Secondary	1 day <i>or</i> 2 twilights
Understanding Fractions	Primary & Secondary	1 day <i>or</i> 2 twilights
Understanding the 'CPA' approach	Primary & Secondary	0.5 day <i>or</i> 1 twilight
Mastery in Mathematics	Primary & Secondary	1 day <i>or</i> 2 twilights
Using Mistakes and Misconceptions to develop teaching and learning	Primary & Secondary	0.5 day <i>or</i> 1 twilight
Using Marking to develop teaching and learning	Primary & Secondary	0.5 day <i>or</i> 1 twilight
A cross curricular approach to mathematics	Primary	0.5 day <i>or</i> 1 twilight

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