



Kent Maths Toolkit– Newsletter



Providing Guidance and Resources — Kent Maths Toolkit



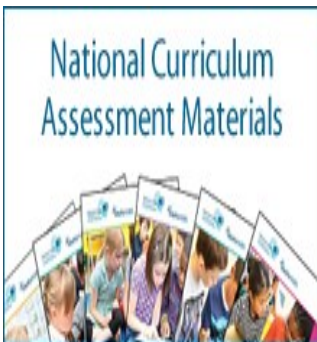
The new National Curriculum for Mathematics has challenged the way teachers teach and children learn. It places great emphasis on promoting thinking skills so that pupils become **fluent**, are able to **reason mathematically** and can **solve problems**. This provides our schools with an opportunity to look at how mathematics for understanding is taught.

The challenge we face is how best to provide support and guidance to all our teachers so that they can build on their knowledge, skills and understanding when teaching mathematics .

A great source of guidance and resources are only a click away at the Kent Maths Toolkit

<https://www.klz.org.uk/>

Assessment Resources — NCETM and White Rose



Assessment material from the NCETM and the White Rose MathsHubs - To help teachers make judgements on the degree to which pupils have acquired mastery of the mathematics curriculum, the NCETM, working in conjunction with the MathsHubs programme, has produced a series of questions, tasks and activities, mapped against key topics of the National Curriculum.

The materials, produced in collaboration with Oxford University Press, are divided into six separate documents, one for each of Years 1 to 6 inclusive. Each document starts with an introduction to the principles of teaching for mastery and the implications for assessment in mathematics in the context of the new curriculum. The structure and suggested use of the new assessment materials is also explained'

The documents are available to download directly from the NCETM <https://www.ncetm.org.uk/>



In addition, the assessment material from the White Rose MathsHub addresses and helps teachers and pupils with the Two Assessments **Arithmetic** paper that is largely a test of calculation. Problem involves pupils finding missing values and solving equations and **Reasoning and problem solving** paper that tests pupils' understanding of the work they have done and assess pupils ability to apply the mathematics they have learnt and understand at KS1 and KS2. The documents are available to download directly from Kent Maths Toolkit <https://www.klz.org.uk/>

Primary Mathematics Conference (21 June 2016) - Teaching for mastery using the BIG Ideas



This years Primary summer Mathematics conference—Teaching for mastery using the BIG Ideas

What are big ideas in mathematics and why are they important? As noted in the aims for the new UK National Curriculum: Mathematics is an interconnected subject pupils should make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. In this keynote Mike Askew will look at how a focus on teaching for Big Ideas can help achieve these aims. Mike will then go onto to explore a definition of what constitutes a Big Idea in primary mathematics, what some of the main Big Ideas are, and how working with Big Ideas can help address with learner diversity and promoting inclusive classrooms.

Mike Askew is an internationally renowned expert in Primary Mathematics Education who believes that all pupils can act as mathematicians, given rich, engaging and challenging problems to reason about.

Kent CPD Online
Developing the children's workforce

Date: **21st June 2016**

Ashford International Ho-

CPD online: <https://cpdschools.kentcpdonline.org.uk/courses/bookings/>



Progression across the Mathematics Curriculum — Canterbury Christ Church University



Canterbury Christ Church University has produced a range of useful Mathematics documents

which address the following strands:

- ⇒ Progression in Addition and Subtraction- Y1 to Y6
- ⇒ Progression in Multiplication and Division- Y1 to Y6
- ⇒ Progression in Algebra across the Primary Curriculum

The documents are available to download directly from Kent Maths Toolkit <https://www.klz.org.uk/>

Key stage KS1 and KS2 Exemplification Material

2016 national curriculum assessments

Key stage 1

2016 national curriculum assessments

Key stage 2

2016 Exemplification material for mathematics to support accurate teacher assessment at the end of key stage. This guidance should be used with the 2016 interim TA frameworks.

The exemplification shows examples of pupils' work at the standards detailed in the interim TA frameworks. The interim TA frameworks are for 2015 to 2016 only.

Further to the DfE announcement on 19th February regarding the change of date for the submission of KS1 and KS2 TA, KCC have also agreed with Management Information to amend their submission dates.

Statement

The pupil can calculate mentally, using efficient strategies such as manipulating expressions using commutative and distributive properties to simplify the calculation e.g. $32 - 22 + 47 - 32 + 47 - 22 = 100 - 22 - 18$, $20 + 7 + 5 = 20 + 5 + 7 = 100 + 53 + 7 = 3 + 7 + 63 + 3 + 7 = 16 + 7 = 6$.

2016 KS2 mathematics exemplification

The new dates will now be:

- ⇒ KS1 - Thursday 30th June 2016
- ⇒ KS2 - Friday 17th June 2016

Schools will be informed of moderation dates once we have received official information from the STA.

This documents are available to download directly from Kent Maths Toolkit <https://www.klz.org.uk/>

Making the best use of Teaching Assistants– Guidance Report

Figure 2. A framework that TAs can use for more effective questioning

Complexity	Complexity →					
	HL	DEL	CAL	USUAL	WL	HIGH
Very High						
High						
Medium						
Low						
Very Low						

This Education Endowment Foundation (EEF) Guidance Report contains seven recommendations to maximise the impact of teaching assistants (TAs) in primary and secondary schools, based on the best available research evidence. They provide a framework by which schools can transform the way TAs are deployed and supported, to help them thrive in their role and improve outcomes for pupils. The recommendations are arranged in three sections:

- Recommendations on the use of TAs in everyday classroom contexts
- Recommendations on TAs delivering structured interventions out of class
- Recommendations on linking



The most comprehensive primary mathematics resource:

How does the Mastery Approach help progress in mathematics? Find out at:

<https://www.stem.org.uk/blog/how-does-mastery-approach-help-progress-mathematics>



Year 2 Mathematical Reasoning Project — Kent MathsHub



The Kent and Medway Maths Hub is seeking local primary schools to participate in a national research project to measure the effectiveness of a programme of teaching for Year 2 children designed to promote children's quantitative reasoning — understanding the relations between numbers and being able to use them to solve problems. The project, using materials designed by researchers at Oxford University and funded by the Education Endowment Foundation (EEF) is being run in eight Maths Hubs areas and coordinated by the NCETM. Kent and Medway is one of the eight Maths Hubs participating. An earlier EEF trial of the programme showed a positive impact on pupils' numeracy ability.

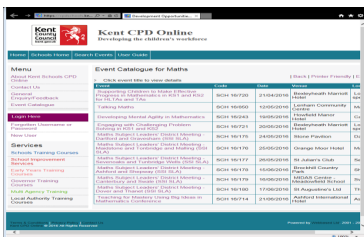
In this larger scale project, at Kent and Medway Maths Hub, we seek to recruit 20 primary schools to participate in the project, which will run during the school year 2016/2017. Once the 20 schools have been selected, half will be chosen at random to receive the teaching intervention, the other half will carry on teaching as usual. This group will receive training and the materials for use during the school year 2017/2018.

Schools applying will need to be in, or near, the geographical area covered by this Maths Hub. For more information see below.

Next steps

Please complete and return the Expression of Interest form to the Kent and Medway Maths Hub (srose@sjwms.co.uk) by **28 April 2016**.

Mathematics CPD Courses – This terms mathematics courses



To book your place please apply online at <http://cpdonline.kenttrustweb.org.uk/cpd/>

If you find that any course you wish to attend is full, contact Training and Development kentcpdonline01@kent.gov.uk to register your wish to be added to the reserve list. This will give us some idea of the level of demand for that course.



Contact Details

Noureddin Khassal
Telephone: 03000 417979

Email: noureddin.khassal@kent.gov.uk

Improvement Adviser

SLA- We would be delighted to support your school towards embedding the New Mathematics Curriculum .

Please contact :
schoolimprovementSLA@kent.gov.uk

Menu		Event Catalogue for Maths				
About Kent Schools CPD Online Contact Us General Enquiry/Feedback Event Catalogue Login Here Forgotten Username or Password New User Services Schools Training Courses School Improvement Services Early Years Training Courses Governor Training Courses Multi Agency Training Local Authority Training Courses		Back Printer Friendly Excel Version				
Event	Code	Date	Venue	Location		
Supporting Children to Make Effective Progress in Mathematics in KS1 and KS2 for HLTAs and TAs	SCH 16/720	21/04/2016	Bexleyheath Marriott Hotel	Location not specified		
Talking Maths	SCH 16/850	12/05/2016	Lenham Community Centre	Maidstone		
Developing Mental Agility in Mathematics	SCH 16/243	19/05/2016	Howfield Manor Hotel	Canterbury		
Engaging with Challenging Problem Solving in KS1 and KS2	SCH 16/721	20/05/2016	Bexleyheath Marriott Hotel	Location not specified		
Maths Subject Leaders' District Meeting - Dartford and Gravesham (SSI SLA)	SCH 16/175	24/05/2016	Stone Pavilion	Dartford		
Maths Subject Leaders' District Meeting - Maidstone and Tonbridge and Malling (SSI SLA)	SCH 16/176	25/05/2016	Grange Moor Hotel	Maidstone		
Maths Subject Leaders' District Meeting - Sevenoaks and Tunbridge Wells (SSI SLA)	SCH 16/177	26/05/2016	St Julian's Club	Sevenoaks		
Maths Subject Leaders' District Meeting - Ashford and Shepway (SSI SLA)	SCH 16/178	15/06/2016	Brockhill Country Park	Shepway		
Maths Subject Leaders' District Meeting - Canterbury and Swale (SSI SLA)	SCH 16/179	16/06/2016	MIDAS Centre - Meadowfield School	Swale		
Maths Subject Leaders' District Meeting - Dover and Thanet (SSI SLA)	SCH 16/180	17/06/2016	St Augustine's Ltd	Thanet		
Teaching for Mastery Using Big Ideas in Mathematics Conference	SCH 16/714	21/06/2016	Ashford International Hotel	Ashford		