

Newsletter No 10

For Primary Mathematics Subject Leaders

Welcome to the Autumn 2010 edition of the mathematics newsletter.



Pick 'n' Mix Mathematics

Starting November 2010 A smart alternative to staff meetings!

This is a series of mathematical twilight sessions that we are holding to help schools prepare for teaching each of the mathematics Blocks in KS1 and KS2. We are offering five twilights at a heavily discounted one-off price of £450 for up to 4 people or £800 for up to 8 people.

Each twilight will be based on a Block which is due to start 2-3 weeks after the training and will include:

- Key concepts and subject knowledge
- Models and images
- Context ideas for Key Stages 1 and 2
- Links to any appropriate Special
- **Events**
- Planning overview
- Book, film or art links
- Assessment opportunities
- AT1
- Links to interventions

Find out more danielle.youngs@norfolk.gov.uk



Welcome to the mathematics babies! Becky became a mum on 4th September to Oliver and Simon became a dad on 3rd August to Jack. All are doing well, although a little tired!

Primary National Strategy Recent Materials for Mathematics

Teaching Children to Calculate Mentally

Ref: 00365-2010PDF-EN-01

This booklet is an updated version of the 1999 publication. It includes details about progression in skills and the principles associated with the teaching of mental calculations. Ideas for teaching activities and appropriate questions are also included.

Problem Solving Packs

these are being updated; details to follow

www.standards.dcsf.gov.uk

Mathematics Resource Mathematics Monkey

Have you met the Norfolk Mathematics Team's cheeky

mascot? The idea is that each class has a mathematics monkey and scrapbook which goes home with a different child

each day. They do some mathematics together outside school e.a. children take him on a journey to see how far it is or to the coffee shop to work out the change from £5.



Handy Tip: There is a pattern to make a 'sock' monkey on the Mathematics Team website http://schools.norfolk.gov.uk/page 67.cfm Click on: Raising the Profile of Mathematics



Books and Films

as a stimulus for teaching mathematics Wednesday 9th February 2011

Hethel Engineering Centre

The use of books and films as a starting point for mathematics will engage and inspire your children. A list of books is available on our website but this course will provide you with further practical ideas to enthuse and motivate children of all ages. Details will be available on the CPD website after half term.

To view the list of books http://schools.norfolk.gov.uk/page 67.cfm Click on: Resources > Maths from stories

Norfolk Calculations Research: We now have data for approximately 1,000 Year 5 children from schools across Norfolk from 2006, 2008 and 2010 relating to their calculation strategies for the following questions: **546 + 423**, **317 – 180**, **56 x 24** and **222 ÷ 3**.

	2006		2008		2010		Change
	Correct	Incorr	Correct	Incorr	Correct	Incorr	
Addition	894	101	955	113	875	98	
	(90%)	(10%)	(89%)	(11%)	(90%)	(10%)	0%
Subtraction	422	573	575	493	569	404	
	(42%)	(58%)	(54%)	(46%)	(58%)	(42%)	+16%
Multiplication	223	772	313	755	351	622	
	(22%)	(78%)	(29%)	(71%)	(36%)	(64%)	+14%
Division	206	789	298	770	318	655	
	(21%)	(79%)	(28%)	(72%)	(33%)	(67%)	+12%

We are pleased to see that results for subtraction, multiplication and division continue to rise and have evidence from individual schools that this is due to the consistent use of transparent calculation strategies such as the number line for subtraction, the grid method for multiplication and chunking for division. Our work on this continues!

Do you know how good the children in your school are at calculating?

If you want to find out, download the set of audit questions that we have created to use with Foundation Stage to Year 6 children (Subject Leaders section under 'Calculations Policy). The results from this audit will help you to identify strengths and weaknesses within your school and see if your Calculations Policy is being consistently applied.

Parents' Events are a good way to ensure consistency between home and school and members of the Mathematics Team are happy to run these for you.

This research has been recognised nationally by the National Strategies and was recently used as part of BBC Radio 4's 'More or Less' Programme.



Every 679 hild

Numbers Count continues to make a difference to the lowest attaining Year 2 pupils in Norfolk.

386 children completed the programme of intervention and made an **average gain in Number Age of just over 13 months in one term**. This level of progress is 4 times the expected rate. Here are some Number Counts Teacher quotes:

"Beginning of NC 'I hate maths, I can't do it'. End of NC 'I love maths now!" "One girl used her growing confidence about odd and even to say 100 was even. She proceeded to explain it to several adult visitors – based on her knowledge of 10." "The big 'O' Ofsted saying how great the results were and how worthwhile NC is."

Find out more 🕆 juliet.stokes@norfolk.gov.uk

Contextualising the Learning and Teaching of Mathematics

This project will enable teachers to examine, plan and teach sequences of lessons using 'real life' contexts. Consideration will be given to the Primary Curriculum Review, Ofsted requirements and Assessment for Learning.

This 3-day course starts in November. To find out more: <u>http://www.cpd.norfolk.gov.uk/sdms/</u> Activity Reference: EPMK9

The Norfolk Advisory Service Mathematics Team are:

Alison Borthwick, Becky Crabtree, Simon Davis, Jenny Godson, Marc Goodliffe, Anna Hogg Micky Harcourt-Heath, Jean Johnson, Sue Robinson, Juliet Stokes & Pete Yong Tel: 01603 433276 Fax: 01603 700236

Newsletter Email Distribution List: To be added, please email <u>danielle.youngs@norfolk.gov.uk</u>