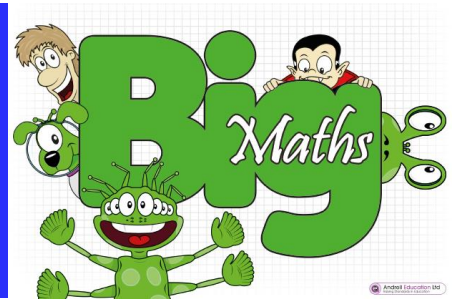




Big Maths

A guide for Walkley Parents

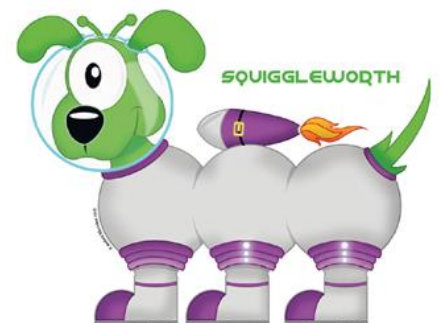
Big Maths is a teaching programme used at Walkley to help children to become numerate. Challenging worded problems cannot be solved until children can manipulate and understand how numbers work.

Big Maths lessons are fast, fun and furious. Children work on 'Brain Scanners' and 'flash' answers to their teachers so the pace of the lesson is quite exhausting. We need to pass on the expectation to work at pace and have maths facts instantly available, rather than counting on fingers.

The children are introduced to child-friendly terms such as 'Switchers' and 'Learn Its', rather than 'commutative law' and 'number bonds' to help them manipulate numbers and make them more confident and more successful.



Counting
Learn Its'
It's Nothing New
Calculation



CLIC stands for 'Counting', 'Learn Its', 'It's Nothing New' and 'Calculation'. Maths lessons contain each of these elements.

Counting

Children will count forwards, backwards, in steps of 3, 6 or 25, read and write numbers and in multiples. When practising counting at home with your children, make sure you go backwards and forwards. Don't always start at 0 – make sure they can count on from 75 to 106 for example.



COUNT FOURWAYS



BEAT THAT! **LEARN ITS Challenges!** Steps 7, 8 & 9

Name: _____
Class: _____
Date: _____

Step 7		Step 8		Step 9	
$4 \times 7 =$	$1 \times 10 =$	$9 \times 5 =$	$5 \times 4 =$	$2 \times 8 =$	$5 \times 8 =$
$10 \times 9 =$	$10 \times 3 =$	$10 \times 5 =$	$2 \times 5 =$	$4 \times 2 =$	$5 \times 9 =$
$10 \times 10 =$	$4 \times 8 =$	$8 \times 5 =$	$7 \times 6 =$	$9 \times 2 =$	$3 \times 2 =$
$5 \times 10 =$	$8 \times 10 =$	$9 \times 8 =$	$8 \times 7 =$	$7 \times 5 =$	$10 \times 2 =$
$8 \times 3 =$	$6 \times 10 =$	$6 \times 5 =$	$5 \times 3 =$	$6 \times 9 =$	$6 \times 2 =$
$2 \times 10 =$	$7 \times 10 =$	$5 \times 4 =$	$1 \times 5 =$	$2 \times 2 =$	$6 \times 8 =$
$9 \times 4 =$	$9 \times 3 =$	$5 \times 7 =$	$5 \times 5 =$	$9 \times 7 =$	$2 \times 1 =$
$10 \times 4 =$		$5 \times 6 =$		$7 \times 2 =$	$5 \times 2 =$

my BEAT THAT! score was _____ Wks: 8 Score: _____

'Learn Its'

Learn Its are addition facts and times tables facts. There are 72 Learn Its in total. 36 addition Learn Its and 36 multiplication Learn Its. These are facts that children need to learn off by heart, so when they are asked 'What is $6+4$?' they are able to give the answer as quickly as they would be able to tell you their name. As soon as they know $3 \times 5 = 15$ they also know $5 \times 3 = 15$ (This is known as a 'Switcher')

The 36 addition Learn Its

+	2	3	4	5	6	7	8	9
2	4							
3	5	6						
4	6	7	8					
5	7	8	9	10				
6	8	9	10	11	12			
7	9	10	11	12	13	14		
8	10	11	12	13	14	15	16	
9	11	12	13	14	15	16	17	18

The 36 multiplication Learn Its

x	2	3	4	5	6	7	8	9
2	4							
3	6	9						
4	8	12	16					
5	10	15	20	25				
6	12	18	24	30	36			
7	14	21	28	35	42	49		
8	16	24	32	40	48	56	64	
9	18	27	36	45	54	63	72	81

The Big Maths Beat That Challenges

There are 15 different Learn Its Challenge assessments. Children progress through them incrementally from 1 to 15. Your child's teacher will select the Learn Its for your child to work on to make sure they really **do** know their Learn Its and their Switchers with INSTANT RECALL (no fingers!). The intended term for learning each step is illustrated below.

Step	Addition Learn Its	Multiplication Learn Its	Term
15		X12 Table	Y4: Term 3
14		X11 Table	Y4: Term 2
13		The Six Fact Challenge	Y4: Term 1
12		X8 Table	Y3: Term 3
11		X4 Table	Y3: Term 2
10		X3 Table	Y3: Term 1
9	5+9, 6+9, 7+9, 5+7, 5+8, 6+8	X2 Table	Y2: Term 3
8	5+4, 5+6, 6+7, 8+7, 8+9	X5 Table	Y2: Term 2
7	3+8, 3+9, 4+7, 4+8, 4+9	X10 Table	Y2: Term 1
6	6+6, 7+7, 8+8, 9+9	Multiples of 2 in counting	Y1: Term 3
5	4+2, 5+2, 6+2, 7+2, 9+2, 4+3, 5+3, 6+3		Y1: Term 2
4	1+9, 2+8=10, 3+7=10, 4+6, 5+5=10	Multiples of 5 in counting	Y1: Term 1
3	2+1, 2+3	Multiples of 10 in counting	Rec: Term 3
2	3+3, 4+4, 5+5		Rec: Term 2
1			Rec: Term 1

Children's recall of Learn Its is tested weekly in Big Maths Beat That Challenges. All progress is celebrated in class and in Golden Assemblies.

It's Nothing New

This is the most important aspect of CLIC – the way children become successful and properly numerate. Ideas such as 4 things and 3 things are always 7 things allow us to change the 'thing' to tens for example. 4 tens + 3 tens = 7 tens.



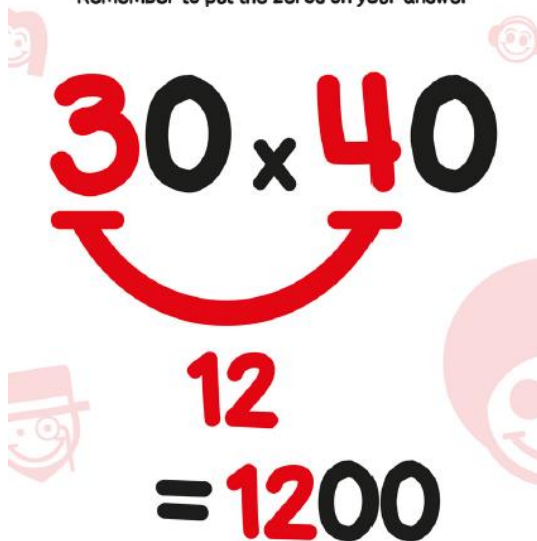
Children will count in bananas, aliens, cats etc. to lead into this. It becomes much easier to use amounts and measures such as ml, m. Pim the Alien is used to reinforce this concept.

The idea is that the learning is nothing new! – Children feel able to answer questions with real understanding. If a child knows double 4, they can use that to find double 40 with confidence.

New phrases such as 'Jigsaw Numbers', 'Smile Multiplication' and 'Where's Mully?' are all part of 'It's Nothing New'.

SMILE MULTIPLICATION

Remember to do the tables bit
Remember to count the zeros in the question
Remember to put the zeros on your answer

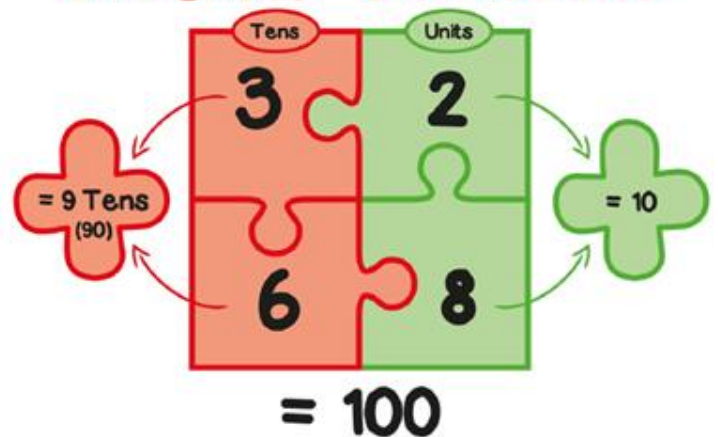


30 x 40

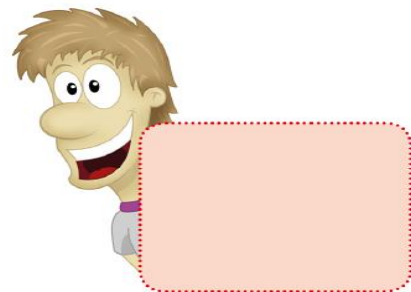
12

= 1200

JIGSAW NUMBERS



WHERE'S MULLY?



He's hiding behind the biggest multiple of...

...without going past...

Calculation

This aspect of CLIC is when the teacher will work on developing the class' progress and understanding of addition, subtraction, multiplication and division. Big Maths clearly maps out which steps children should do in a clear order and helps teachers to identify next steps for children's continued development.