

Mathematics @ Paull Primary

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- ▶ Chris Quigley milestones are used to meet the national curriculum.
 - ▶ Split into three milestones
 - ▶ Y1/2 Milestone 1
 - ▶ Y3/4 Milestone 2
 - ▶ Y5/6 Milestone 3
- ▶ EYFS curriculum for nursery (Foundation Stage 1) & reception (Foundation Stage 2)
- ▶ Big maths all year groups.

CHRIS QUIGLEY

Key Stage 1

- Count and calculate in a range of practical contexts. • Use and apply mathematics in everyday activities and across the curriculum.
- Repeat key concepts in many different practical ways to secure retention.
- Explore numbers and place value up to at least 100.
- Add and subtract using mental and formal written methods in practical contexts.
- Multiply and divide using mental and formal written methods in practical contexts.
- Explore the properties of shapes.
- Use language to describe position, direction and movement.
- Use and apply in practical contexts a range of measures, including time.
- Handle data in practical contexts.

Key Stage 2

- Count and calculate in increasingly complex contexts, including those that cannot be experienced first hand.
- Rigorously apply mathematical knowledge across the curriculum, in particular in science, technology and computing.
- Deepen conceptual understanding of mathematics by frequent repetition and extension of key concepts in a range of engaging and purposeful contexts.
- Explore numbers and place value so as to read and understand the value of all numbers.
- Add and subtract using efficient mental and formal written methods.
- Multiply and divide using efficient mental and formal written methods.
- Use the properties of shapes and angles in increasingly complex and practical contexts, including in construction and engineering contexts.
- Describe position, direction and movement in increasingly precise ways.
- Use and apply measures to increasingly complex contexts.
- Gather, organise and interrogate data.
- Understand the practical value of using algebra.

		Milestone 1	Milestone 2	Milestone 3
To know and use numbers	Counting	<ul style="list-style-type: none"> Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 100 in numerals. Given a number, identify one more and one less. Count in steps of 2, 3, 5 and 10 from 0 or 1 and in tens from any number, forward and backward. 	<ul style="list-style-type: none"> Count in multiples of 2 to 9, 25, 50, 100 and 1000. Find 1000 more or less than a given number. Count backwards through zero to include negative numbers. 	<ul style="list-style-type: none"> Read numbers up to 10 000 000. Use negative numbers in context and calculate intervals across zero.
	Representing	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations, including the number line. Read and write numbers initially from 1 to 20 and then to at least 100 in numerals and in words. 	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. 	<ul style="list-style-type: none"> Write numbers up to 10 000 000 Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.
	Comparing	<ul style="list-style-type: none"> Use the language of: equal to, more than, less than (fewer), most and 	<ul style="list-style-type: none"> Order and compare numbers beyond 1000. 	<ul style="list-style-type: none"> Order and compare numbers up to 10 000 000.

Big Maths

- ▶ Big maths focuses on the main mathematical principles.
- ▶ Clear progression from year to year.
- ▶ Build on prior learning and ensure children are secure in their knowledge.
- ▶ Common methods taught and language used throughout the school.
- ▶ Focuses on the number and four rules of mathematics.
- ▶ Develops the skills through regular practice.
- ▶ Shows the children's progress through weekly testing.
- ▶ It is used as a small part of every maths lesson or taught sep.
- ▶ The principle is to enable to basic mathematical skills to be used in all areas of maths such as:
 - ▶ Measures
 - ▶ Problem solving
 - ▶ Data handling
 - ▶ Shape

Big Maths

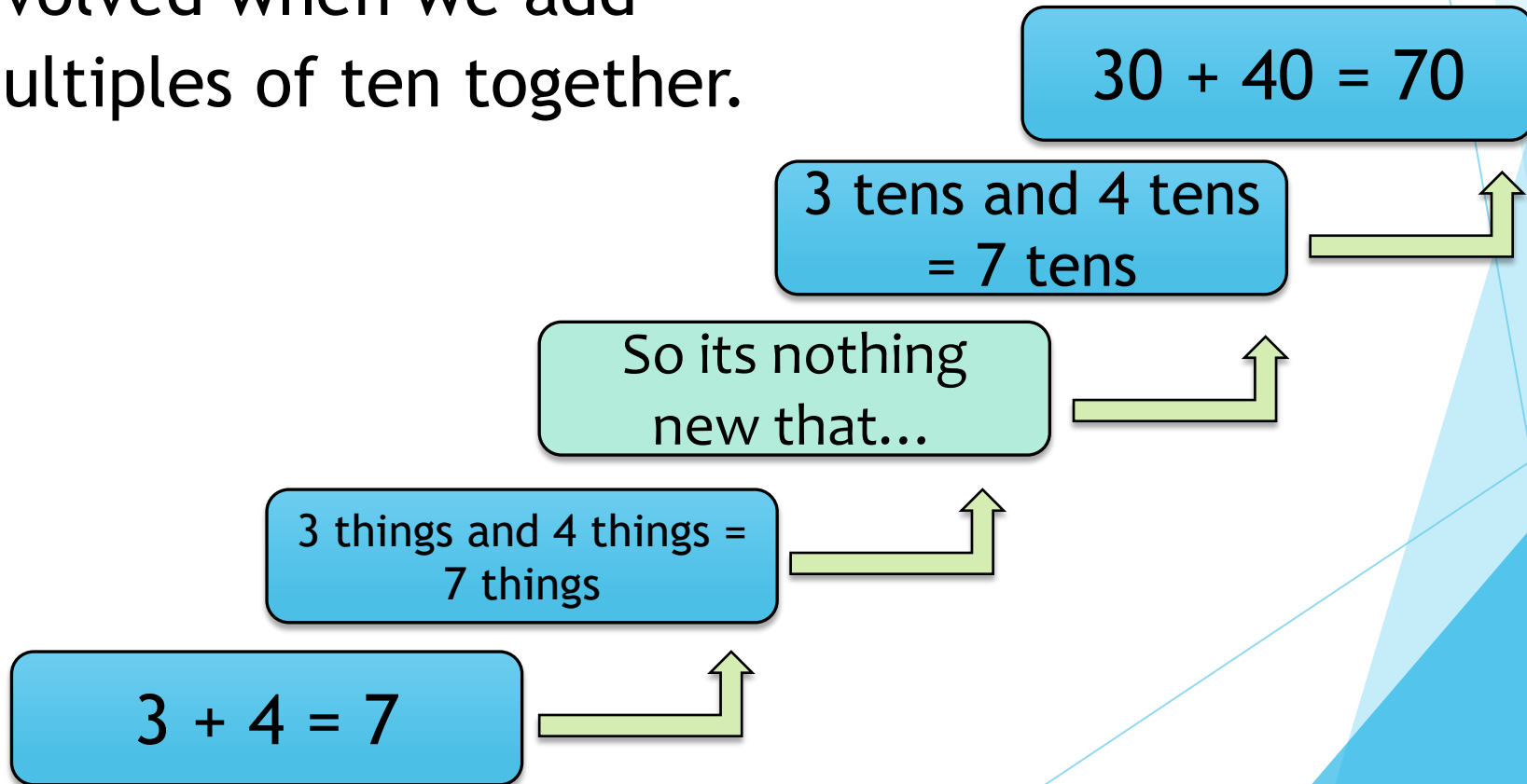
- ▶ **The Learn Its Challenge or Minute Maths:** Covers all the addition and multiplication facts needed.
- ▶ **The CLIC Challenge:** Covers all the basic skills that a child needs to be properly numerate.
- ▶ **Chris Quigley:** Covers the rest of the Maths curriculum.

Counting:

- Saying numbers
- Reading numbers
- Core number
- Counting skills
- Actual counting
- Counting on
- Counting multiples
- Count different ways
- Counting along

Adding

There is no new maths involved when we add multiples of ten together.



Learmits

Step	Addition learnits	Multiplication learnits
15		X12 table
14		X11 table
13		The six fact challenge
12		X8 table
11		X4 table
10		X3 table
9	5+9 6+9 7+9 5+7 5+8 6+8	X2 table
8	4+5 5+6 6+7 7+8 8+9	X5 table
7	3+8 3+9 4+7 4+8 4+9	X10 table
6	6+6 7+7 8+8 9+9	Multiples of 2
5	4+2 5+2 6+2 7+2 9+2 4+3 5+3 6+3	
4	2+8 3+7 4+6	Multiples of 5
3	1+2 2+3	Multiples of 10
2	3+3 4+4 5+5	
1	1+1 2+2	

Its nothing new

- Addition
- Doubling/halving
- Jigsaw numbers
- $\times 10 / \div$
- Smile multiplication
- Coin multiplication
- Fact families.


Coin Multiplication

Children start by completing a 1 & 10 Coin Card

Then a 1, 2, 5, & 10 Coin Card

They then progress onto the full Coin Card

X 26	
1	26
2	52
5	130
10	260
20	520
50	1300
100	2600



Smile Multiplication



$$\underline{30} \times \underline{80} = 24\underline{00}$$

24

- Do the tables bit
- Count the zeros in the question
- Put the zeros on your answer!

Calculation

Step 1 - I know when to add some more

Step 2 - I know to find the total

Step 3 - I add the right amount

Step 4 - I add the right amount and can count how many altogether

Step 5 - I can add numbers of objects to 10

Step 6 - I can read a number sentence

Step 7 - I can arrange a number sequence

Step 8 - I can solve a number sentence

Step 9 - I can solve addition on a number line

Step 10 - I can add 1 to a number up to 20

Step 11 - I can add 2 or 3 to a number up to 20

Step 12 - I can add a 1d number to a number to 20

Step 13 - I can add 1 to a 2d number

Step 14 - I can add 10 to a 2d tens number

Step 15 - I can add 10 to any 2d number

Step 16 - I can add a 1d number to a 2d tens number

Step 17 - I can solve $2d+1d$

Step 18 - I can add a 2d tens number to another one

Step 19 - I can solve any $1d+1d$ in my head

Step 20 - I can solve any $2d+1d$

Step 21 - I can add any 2d tens number to another one

Step 22 - I can add a 2d tens number to a 2d number

Step 23 - I can add any 2d tens number to a 2d number

Step 24 - I can add a 2d number to a 2d number

Step 25 - I can solve any $2d+2d$

Step 26 - I can solve $3d+2d$

Step 27 - I can solve any $3d+2d$

Step 28 - I can solve $3d+3d$

Step 29 - I can solve any $3d+3d$

Step 30 - I can solve $3d+3d$ as money

Up to step 39- I can solve additions with several numbers.



Note: Multiple copies of this CLIC Challenge are not provided since all scores arise through teacher assessment.

CLIC 1

Name: _____

Class: _____

Date: _____

1 T
"1, 2, 3, 4,
5, 6, 7"

2 T
"1, 2, 3,
4, 5, 6, 7,
8, 9, 10"

3 T
1 2
3

4 T
1 5
2 4 3

5 T
How Many?

6 T
I know I
have 10 fingers

7 T
I can tell
you double 1
and double 2

8 T
I can tell you
half of 4,
half of 2

9 T
I add 1

10 T
2 add 2





Note: Multiple copies of this CLIC Challenge are not provided since all scores arise through teacher assessment.

CLIC 2

Name: _____


Class: _____

Date: _____


1 "1, 2, 3...
...11, 12, 13"

2 **3 9**
2

3 How Many?



4 How Many?




5 Place the numbers in order

4 8 2


6 "10, 20, 30,
40, 50"

7 I know I have 5
fingers on each hand
and 10 altogether

8 Double 3 is



9 I 'more
than' 4 is



10 I 'less
than' 6 is





Name:

Class:

Date:



1 T
300
800 900

2 Write a number
'more than' 12
but 'less than' 20

3 Count backwards
49, 48, 47, , ,

4 Count backwards
83, 82, 81, , ,

5 Double 30 is

6
 $4 + \quad = 10$

7 T
 $4 + 3 =$

8
 $5 + 2 =$
0 1 2 3 4 5 6 7 8 9 10

9 T
 $8 - 5 =$

10
 $6 - 4 =$
0 1 2 3 4 5 6 7 8 9 10



Name:

Class:

Date:



CLIC 6

WK: 1

1 46

2 Place in order
13 11 17 14

3 $14, \quad , 18, 20$

4 $160, 170, \quad , 190, 200$

5 Circle the odd numbers
 $14 \quad 15 \quad 21 \quad 24$

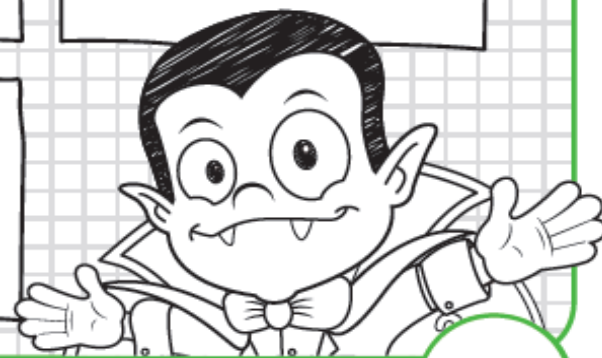
6 Write the fact family for:
 $8 + 6 = 14$

7 $16 + 3 =$

8 **$16 + 7 =$**

9 **$16 - 3 =$**

10 $16 - 7 =$



MY LAST SCORE?!

HAVE I BEAT THAT?!

$\frac{\quad}{10}$



Name: _____

Class: _____

Date: _____

1
300, 400, _____
_____, 700

2
 $30 + 40 =$

3
Double
34 is

4
Double
70 is

5
Half of
70 is

6 Write the fact family for:
 $30 + 40 = 70$
.....
.....
.....

7 $60 + 10 =$

8 $73 + 10 =$

9 $80 - 10 =$

10 $43 - 10 =$





Name: _____


Class: _____

Date: _____

1 $8 \div \frac{2}{5} =$

2 **Five sixths add seven ninths**

3 Explain why 36% is less than $\frac{3}{8}$



4 Convert $\frac{5}{8}$ into a percentage

5 Increase £32 by 15%

6 Write down a fraction between $\frac{1}{3}$ and $\frac{1}{2}$

7 Decrease 72m by 35%

8 A recipe for 6 people includes 750ml of orange juice. How many millilitres would be needed for 10 people.

9 There is a 30% sale. A boy paid £140 for a camera in the sale. What was the original price of the camera?

10 Divide 180 in the ratio 3:4:5

MY LAST SCORE?!

HAVE I BEAT THAT?!

10

Tracking Entry



open filters

SUBJECT

- Writing
- Reading
- Maths** ✓
- Science

YEAR GROUP

- Year 1
- Year 2** ✓
- Year 3
- Year 4
- Year 5
- Year 6

TERM

- Term 4 End of Autumn Term** ✓
- Term 5 End of Spring Term
- Term 6 End of Summer Term

TIME MACHINE

- Year 1

PUPILS (13)

Toggle all



Set Improvement Targets

SATS!

EYFS - Teacher Assessment

KS1 - Teacher Assessment - backed up with SATS tests and moderation.

KS2 - SATS & Teacher Assessment

Tests - Arithmetic & Problem Solving

How can I support my child?

Help your child to practice their 'Learn Its' or 'Minute Maths' at home/h. Each week your child will be introduced to new facts.

Ask your child to tell you about their Maths skills.

Praise! Celebrate the successes.