

2014 National Curriculum

Mathematics – Domain Progression Across Key Stages 1 & 2

Mental Maths

1. Number: Number and Place Value
2. Number: Addition and Subtraction
3. Number: Multiplication and Division
4. Number: Fractions
5. Number: Ratio & Proportion
6. Measurement
7. Geometry: Properties of Shape
8. Geometry: Position and Direction
9. Statistics
10. Algebra

Red Text: Suggested Objectives deemed missing in 2014 Curriculum

EYFS		1	2	3	4	5	6
Counting (& Algebra)	- Saying number words in sequence, clapping , rhymes- beyond 20 - Tagging objects with words - Subitising - Conservation (stays the same) - Numeral meanings - Patterns	- count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number - count in multiples of twos, fives and tens	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward (4s and 8s)	count from 0 in multiples of 4, 8, 50 and 100 (6 7 9 11); find 10 or 100 more or less than a given number	- count in multiples of 6, 7, 9, 11, 12 ,25 and 1000 - count backwards through zero to include negative numbers - find 1000 more or less than a given number	- count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 - count forwards and backwards with positive and negative whole numbers, including through zero - Counting and describing non linear sequences	- generate and describe linear number sequences
Rounding			round any number to the nearest 10	round any number to the nearest 100	round any number to the nearest 10, 100 or 1000	round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	round any whole number to a required degree of accuracy
+ and – Facts	Number bonds to 5/10	- Recall number bonds to 10 - Represent and use number bonds and related subtraction facts within 10 - given a number, identify one more and one less	- Recall number bonds to 20 - recall and use addition and subtraction facts within 20 (Bonds to 11, 13 etc) - derive and use related facts up to 100 e.g. 3+7=10 so 30+70=100 - given a number, identify ten more and ten less	- Complements to 100 - Consolidate and use addition and subtraction facts within 20 (Bonds to 15 / 17 etc)	Complements to 1000	Complements of decimals to one whole	- Complements to 100 to 2d.p. - Add and subtract simple positive and negative numbers
	- Last number counted is total so far - One more one less	add and subtract one-digit and two-digit numbers to 20, including zero	- add and subtract numbers mentally - a two-digit number & ones - a two-digit number and tens - two two-digit numbers - adding three one-digit numbers - Finding small differences by counting up	- add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds	Continue to add and subtract mentally using jottings if appropriate.	add and subtract numbers mentally with increasingly large numbers	perform mental calculations, including with mixed operations and large numbers
X and ÷ Facts	Double facts up to 10	- Doubling and halving numbers 1-10 - Counting in twos, fives and tens	- recall and use multiplication and division facts for the 1,2, 5 and 10 multiplication tables - Doubling and halving numbers 1-20 - Counting in 3s, 4s and 8s	- recall and use multiplication and division facts for the 1 , 2, 3, 4, 5, 8, 10 and 11 times tables tables - doubling facts of multiples of 10 up to double 100 - Counting in 6s, 7s, 9s, 11s, 12s	- recall multiplication and division facts for multiplication tables up to 12 x 12 - doubling facts of multiples of 100/1000 - doubling multiples of 10 beyond 100	recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)	identify common factors, common multiples and prime numbers
X and ÷ Mental Methods					- Use mental arithmetic strategies when appropriate, e.g. partitioning, chunking and jottings - multiply and divide whole numbers and those involving decimals by 10 and 100	- Use mental arithmetic strategies when appropriate, e.g. partitioning, chunking and jottings - multiply and divide numbers mentally drawing upon known facts - multiply and divide whole numbers and those involving decimals by 10, 100 and 1000, giving answers up to two decimal places	- Use mental arithmetic strategies when appropriate, e.g. partitioning, chunking and jottings - perform mental calculations, including with mixed operations and large numbers - multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places
Fractions	Groups of same and different amounts up to 10			Find unit fractions of amounts. E.g ½, 1/3, ¼ of 12kg	- Count up and down in tenths; - Find fractions of amounts and quantities - read, write, order and compare numbers with up to two decimal places (or 3 in measures)	- Count up and down in hundredths; - Learn FDP equivalences - Find fractions and percentages of amounts - read, write, order and compare numbers with up to three decimal places	- Count in any fraction step - Consolidate FDP equivalences - Find fractions of larger amounts - Calculate percentages of larger measures, quantities and amounts - identify the value of each digit in numbers to three decimal places
							calculate, estimate and compare volume of cubes and cuboids using standard units,