Curriculum Expectations for Maths

Year 1

BIG Maths – CLIC. Learn its	Number and calculations	Measurement	Geometry
Addition:	Count to/across 100	Compare, describe, measure,	Recognise and name common
 Addition: 1+9, 2+8=10, 3+7=10, 4+6, 5+5=10; 4+2, 5+2, 6+2, 7+2, 9+2, 4+3, 5+3, 6+3 6+6, 7+7, 8+8, 9+9 Multiplication: Multiples of 5 - In counting Multiples of 2 - In counting 	 Count to/across 100 Count in 1s, 2s, 5s and 10s Identify 'one more' and 'one less' Read and write numbers to 20 in words and numerals Use objects and pictures to represent numbers Use language of comparison Use +, - and = signs Know number bonds to 20 Add and subtract numbers 0 to 20 Solve one-step problems Recognise and use 1/2 and 14/4 	 Compare, describe, measure, record and solve problems for lengths, weights, capacities/volumes and times Recognise coins and notes Sequence events chronologically using ordering language Use language relating to dates Tell time to the hour and halfhour 	Recognise and name common 2D and 3D shapes • Describe position, direction and movement, including 1/2 , ¹ / ₄ and 34 turns

BIG Maths –	Number and calculations	Measurement	Geometry	Statistics
CLIC. Learn its				
Addition: • 3+8, 3+9, 4+7, 4+8, 4+9; • 5+4, 5+6, 6+7, 8+7, 8+9; • 5+9, 6+9, 7+9, 5+7, 5+8, 6+8 Multiplication: • X 10 table • X 2 table • X 5 table	 Count in 2s, 3s, 5s and 10s Use place value Identify, represent and estimate numbers Compare and order numbers 0 to 100; use < > = Read and write numbers to at least 100 in numerals and words Know number facts to 20 and derive related facts to 100 Add and subtract using concrete, pictorial and mental methods Recognise addition is commutative Recognise and apply inverse relationship between addition and subtraction Know 2, 5 and 10 times tables; write facts using ×, ÷ and = Recognise, find, name and write 1/3, ¼, 2/4, and ¾ Recognise equivalence of 2/4 and ½ Solve problems related to place value 	 Choose and use appropriate standard units Compare and order length, mass, volume capacity; record using <, > and = Use £ and p signs; combine coins to a given value and find different combinations Solve problems involving adding/ subtracting money Compare and order time intervals Tell time to nearest five minutes Know the number of minutes in an hour/ hours in a day 	 Identify and describe 2D and 3D shapes Identify 2D shapes on surfaces of 3D shapes Compare and sort common 2D and 3D shapes and everyday objects Arrange shapes in patterns/sequences Use vocabulary of position, direction and movement 	Interpret and draw simple pictograms, tally charts, block diagrams and tables • Ask and answer comparison and totalling questions

Year 3

BIG Maths –	Number and calculations	Measurement	Geometry	Statistics
CLIC. Learn				
its				
 X 3 table 	• Count from 0 in 4s, 8s, 50s and 100s; find 10 or	 Measure and calculate with 	Draw 2D and make 3D	 Interpret, draw
 X 4 table 	100 more/less	metric units	shapes	and answer one-
 X 8 table 	Numbers to 1000: recognise place value of	Measure perimeter of simple	 Recognise angles as a 	and
	each digit; compare and order; read and	2D shapes	property of a shape or	two-step
	write in numerals and words	 Add/subtract money in 	a description of a turn	questions about
	 Identify, represent and estimate numbers in 	context	 Identify right angles; 	bar charts,
	different ways	• Tell analogue time (including	use them to describe	pictograms and
	Mentally add and subtract ones, tens or	Roman numerals and 12- and	fractions of a turn;	tables
	hundreds to/from numbers with up to	24-hour clocks)	compare other angles	
	three digits	Estimate and read time to	to them	
	Add and subtract numbers with up to three	nearest minute; record and	Identify horizontal,	
	digits in columns	compare times; use time	vertical, perpendicular	
	• Estimate answers and check using inverse	vocabulary	and parallel lines	
	operations	Know the number of		
	Learn 3, 4 and 8 times tables	seconds in a minute and days		
	• Multiply and divide two-digit by one-digit	In each month/year/leap year		
	numbers	Compare durations of		
	• Use tenths and count in tenths	events		
	• Recognise, find and write fractions of sets of			
	ODJECIS			
	Recognise and use fractions as numbers Personne on involute fractions			
	Recognise some equivalent fractions			
	denominator un to <1			
	• Order unit fractions and fractions with common			
	denominators			
	Colve problems relating to all cancets of number			
	• Solve problems relating to all aspects of number			

Maths				
BIG Maths – CLIC.	Number and calcualtions	Measurement	Geometry	Statistics
Learn its				
 The Six Fact 	 Count in multiples of 6, 7, 9, 25 and 1000 	 Convert between 	 Compare and 	 Use bar
Challenge!	Find 1000 more/less	units of measure	classify 2D shapes,	charts,
6 x 6; 9 x 6; 9 x	 Count backwards to include negative numbers 	 Measure and 	including	pictograms,
9; 7 x 9; 7 x 7;	 Recognise place value of each digit in a four-digit 	calculate perimeter of	quadrilaterals and	tables and
6 x 7	number	right-angled shapes	triangles	time graphs
 X 11 table 	 Order and compare numbers beyond 1000 	 Find area of right- 	 Identify, compare 	
 X 12 table 	 Identify, represent and estimate numbers in different 	angled shapes by	and order acute,	
	ways	counting squares	obtuse and right	
	 Round numbers to nearest 10, 100 or 1000 	 Estimate, compare 	angles	
	 Solve problems with larger positive numbers 	and calculate different	 Identify lines of 	
	 Use Roman numerals to 100 (C) 	measures	symmetry in 2D	
	 Add and subtract numbers with up to four digits in 	 Read, write and 	shapes	
	columns	convert times	 Complete a simple 	
	 Estimate and use inverse operations to check 	between analogue	symmetric figure	
	answers	and digital and	 Use first quadrant 	
	 Solve two-step addition and subtraction problems 	between 12- and 24-	coordinates	
	 Know all tables to 12 × 12 	hour	 Introduce simple 	
	 Multiply and divide mentally 	 Solve time 	translations	
	 Use factor pairs and commutativity in mental 	conversion problems	 Plot points and 	
	calculations		draw sides to	
	 Use standard short multiplication to multiply two and 		complete a polygon	
	three-digit numbers by a one-digit number			
	 Solve problems involving multiplying and dividing 			
	 Recognise common equivalent fractions 			
	 Count up and down in hundredths 			

 Solve problems involving increasingly harder fractions Add and subtract fractions with common denominators Recognise and write decimal equivalents of any number of tenths and hundredths and of 1/4, 1/2, and 3/4 Find the effect of dividing a one- or two-digit number by 10 and 100 Round decimals with one dp to whole numbers Compare numbers with same number of decimal places up to two dp Solve measure and money problems involving fractions and decimals 	
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Maths				
BIG Maths – CLIC. Learn its: Review all tables up to 12 x 12 and related division facts				
Number and calculations	Measurement	Geometry	Statistics	
Numbers to at least 1 million: read, write, order, compare; know place	Convert between	 Identify 3D shapes 	Solve	
value; round to nearest power of 10; count on/back in powers of 10	metric units and	from 2D	problems based	
Use negative whole numbers in context	between metric and	representations	on line graphs	
 Roman numerals: read numbers to 1000 and years 	imperial units	 Measure, estimate, 	Complete,	
• Add and subtract whole numbers with more than four digits using column	Measure and calculate	compare and draw	read and	
methods	the perimeter of	angles in degrees	interpret	
 Mentally add and subtract increasingly large numbers 	composite right-angled	 Identify angles: at a 	information in	
Use rounding to check answers	shapes	point (whole turn); on	tables	
Identify multiples, factors, prime numbers, prime factors and composite	 Calculate and 	a straight line (half		
numbers	compare area of	turn); other multiples		
 Find primes to 100; recall primes to 19 	rectangles; estimate	of 90°		
Multiply numbers up to four digits by a one- or two digit number using	area of irregular shapes	 Finding missing 		
formal written method	 Estimate volume and 	lengths and angles in		
 Multiply and divide numbers mentally 	capacity	rectangles		
Divide numbers up to four digits by a one-digit number using formal	 Use four operations to 	 Distinguish between 		
written method; interpret remainders	solve measure	regular and irregular		
Multiply and divide by powers of 10	problems using decimal	polygons		
 Use square and cube numbers; use 2 and 3 notation 	notation	 Reflect and translate 		
Compare and order fractions	 Solve problems 	shapes		
 Identify, name and write equivalent fractions 	involving converting			
Use mixed numbers and improper fractions and convert between them	between units of time			
 Add and subtract fractions with common/related denominators 	Use all four operations			
 Multiply fractions by whole numbers 	to solve measure			
Write decimals as fractions	problems			
Recognise and use thousandths and relate to tenths, hundredths and				
decimal equivalents				
Order and round decimal numbers				
Recognise and understand % sign; link percentages to fractions and				
decimals				
Solve problems involving all aspects of number, including multi-step				
problems				

Maths				
BIG Maths – CLIC. Learn its Review all tables up to 12 x 12 and related division facts				
Number and calculations	Measurement	Geometry		
 Numbers to 10 million: read, write, order, compare; know place value; round to a given degree of accuracy Use negative numbers in context; calculate intervals across zero Multiply and divide numbers up to four digits by a two-digit whole number using formal written methods; interpret remainders Perform challenging mental calculations Identify common factors, common multiples and primes Use order of operations Use estimation to check answers Simplify, compare and order fractions Multiply simple fractions together and divide fractions by whole numbers Associate a fraction with division and calculate decimal fraction equivalents Know place value to three decimal places; multiply and divide numbers by 10, 100 and 1000 Multiply one-digit numbers with up to two dp by whole numbers Use written division for answers with up to two dp Recall and use equivalences between simple fractions, decimals and percentages Solve problems involving all aspects of number, including multi-step problems 	 Use a range of measures and conversions, using decimals up to three dp Convert between miles and kilometres Know that shapes with the same area can have different perimeters and vice versa Use area and volume formulae Calculate area of triangles and parallelograms Calculate, estimate and compare volumes of cubes and cuboids 	 Draw 2D shapes given dimensions and angles Describe and build simple 3D shapes Classify shapes by properties Understand circle terminology Know and use angle rules to find unknown angles Describe positions on full coordinate grid Translate and reflect shapes using all four quadrants 		
Algebra	Ratio and Proportion	Statistics		
 Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables 	 Solve problems involving: relative sizes of two quantities; percentages; similar shapes; unequal sharing and grouping 	 Use pie charts and line graphs to solve problems Calculate mean averages 		