

# BCI Maths Progression Document 2021-2022



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## Autumn 1

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7
<b>Nursery</b>	<b>Getting to Know You</b> <b>BASELINE ASSESSMENT</b> Opportunities for settling in, introducing the areas of provision and getting to know the children.	<b>Getting to Know You</b> <b>BASELINE ASSESSMENT</b> Opportunities for settling in, introducing the areas of provision and getting to know the children.	<b>Getting to Know You</b> <b>BASELINE ASSESSMENT</b> Opportunities for settling in, introducing the areas of provision and getting to know the children.	<b>Just Like Me!</b> - Matching and sorting	<b>Just Like Me!</b> - Comparing size and amounts	<b>Just Like Me!</b> - Make simple patterns	<b>Consolidation</b>
<b>Reception</b>	<b>Getting to Know You</b> <b>BASELINE ASSESSMENT</b> Opportunities for settling in, introducing the areas of provision and getting to know the children.	<b>Getting to Know You</b> <b>BASELINE ASSESSMENT</b> Opportunities for settling in, introducing the areas of provision and getting to know the children.	<b>Getting to Know You</b> <b>BASELINE ASSESSMENT</b> Opportunities for settling in, introducing the areas of provision and getting to know the children.	<b>Just Like Me!</b> - Matching with buttons - Matching with socks - Matching lids - Sorting with buttons - Sorting with objects	<b>Just Like Me!</b> - Compare size - Compare amounts - Compare height - Compare length - What will fit inside?	<b>Just Like Me!</b> - Repeating patterns - Printing patterns - Fruit kebab patterns - Autumn walk patterns	<b>Consolidation</b>
<b>Year 1</b>	<b>Number: Place Value (within 10)</b> <b>BASELINE ASSESSMENT</b> <b>COLD TASK</b> - Sort objects - Count objects - Represent objects	<b>Number: Place Value (within 10)</b> - Count forwards - Count backwards - Count one more - Count one less	<b>Number: Place Value (within 10)</b> - 1:1 correspondence - Compare objects - Introduce < > = - Compare numbers	<b>Number: Place Value (within 10)</b> - Order objects - Order numbers - Ordinal numbers - The number line <b>HOT TASK</b>	<b>Number: Addition and Subtraction (within 10)</b> <b>COLD TASK</b> - Part-whole model - Addition symbol - Fact families - addition facts	<b>Number: Addition and Subtraction (within 10)</b> - Find number bonds - Systematic methods for number bonds - Number bonds to 10 - Compare number bonds	<b>Number: Addition and Subtraction (within 10)</b> - Adding together - Adding more - Adding using bonds - Finding a part
<b>Year 2</b>	<b>Number: Place Value</b> <b>BASELINE ASSESSMENT</b> <b>COLD TASK</b> - Count/read/write numbers to 100 - Represent numbers to 100.	<b>Number: Place Value</b> - Tens and ones - Using a place value chart - Compare objects - Compare numbers	<b>Number: Place Value</b> - Order objects - Order numbers - Count in 2's 5's 10's - Count in 3's <b>HOT TASK</b>	<b>Number: Addition and Subtraction</b> <b>COLD TASK</b> - Fact families - Check calculations - Compare number sentences - Related facts	<b>Number: Addition and Subtraction</b> - Bonds to 100 (tens) - Add and subtract 1's - 10 more 10 less - Add and subtract 10's - Add a 2-digit and 1-digit number	<b>Number: Addition and Subtraction</b> - Subtract a 1-digit number from a 2-digit number - Add two 2-digit numbers - Subtract a 2-digit number from a 2-digit number	<b>Number: Addition and Subtraction</b> - Mixed addition and subtraction - Bonds to 100 (tens and ones) - Add three 1-digit numbers <b>HOT TASK</b>

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## Autumn 2

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7
<b>Nursery</b>	<b>It's Me 1 2 3!</b> - Represent numbers to 3.	<b>It's Me 1 2 3!</b> - Composition of numbers to 3	<b>It's Me 1 2 3!</b> - Sorting and matching numbers to 3	<b>It's Me 1 2 3!</b> - One more one less	<b>It's Me 1 2 3!</b> - Sorting circles and triangles	<b>It's Me 1 2 3!</b> - Where is teddy hiding?	<b>Consolidation</b>
<b>Reception</b>	<b>It's Me 1 2 3!</b> - Representing 1 2 3 - Composition of 1 2 3 - Sorting 1 2 3 - Matching 1 2 3	<b>It's Me 1 2 3!</b> - Comparing 1 2 3 - Matching numeral and picture cards - Comparing - One more, one less	<b>It's Me 1 2 3!</b> - Sorting circles and triangles - Shape pictures - Shape hunt - Where is teddy hiding?	<b>Light and Dark</b> - Representing 4 5 - Sorting 4 5 - Composition of 4 5 - Arrangements of 4 5	<b>Light and Dark</b> - Representing 4 5 - Sorting 4 5 - Composition of 4 5 - Arrangements of 4 5	<b>Light and Dark</b> - Sorting squares and rectangles - Shape pictures - Shape hunt - Day and night	<b>Consolidation</b>
<b>Year 1</b>	Number: Addition and Subtraction (within 10) - Subtract crossing out - Subtract using — - Breaking apart - Fact families (8 facts)	Number: Addition and Subtraction (within 10) - Subtract count back - Finding the difference - Compare + and — <b>HOT TASK</b> Consolidation Number: Place Value (within 10)	<b>Geometry: Shape</b> <b>COLD TASK</b> - Recognise 3D shapes - Sort 3D shapes - Recognise 2D shapes	<b>Geometry: Shape</b> - Sort 2D shapes - Patterns with 3D and 2D shapes <b>HOT TASK</b>	Number: Place Value (within 20) <b>COLD TASK</b> - Count forwards and backwards - Numbers to 20 (numerals and words) - Numbers 11 - 20	Number: Place Value (within 20) - Tens and ones - One more one less - Compare objects - Compare numbers	- Order objects - Order numbers <b>HOT TASK</b> <b>Consolidation</b> Number: Place Value (within 20) <b>Geometry: Shape</b>
<b>Year 2</b>	<b>Consolidation</b> <b>ARITHMETIC TEST</b> Number: Place Value Number: Addition and Subtraction	<b>Measurement: Money</b> <b>COLD TASK</b> - Recognise coins and notes - Count money - pence - Count money - pounds - Count notes and coins	<b>Measurement: Money</b> - Select money - Make the same amount - Compare money - Find the total	<b>Measurement: Money</b> - Find the difference - Find change - Two – step problems <b>HOT TASK</b>	Number: Multiplication and Division <b>COLD TASK</b> - Recognise equal groups - Make equal groups - Add equal groups - Using the X symbol	Number: Multiplication and Division - Use arrays - 2-times tables - 5-times tables - 10-times tables	Number: Multiplication and Division - Sharing - Grouping

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## Spring 1

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7
<b>Nursery</b>	<b>Light and Dark</b> - Represent numbers to 5. - Show 'finger numbers' up to 5.	<b>Light and Dark</b> - Sorting squares and rectangles - Shape pictures - Shape hunt	<b>Light and Dark</b> - Using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'.	<b>Alive in 5!</b> - Composition of numbers to 5 - Say one number for each item in order: 1,2,3,4,5.	<b>Alive in 5!</b> - Comparing numbers to 5	<b>Alive in 5!</b> - How many are hiding? - How many altogether?	<b>Consolidation</b>
<b>Reception</b>	<b>Alive in 5!</b> - How many? - Representing 0 - Composition of numbers to 5	<b>Alive in 5!</b> - Comparing numbers to 5 - How many are hiding? - How many altogether?	<b>Alive in 5!</b> - Comparing mass - Heavier and lighter - Full and empty - Measuring capacity	<b>Growing 6, 7, 8</b> - Representing 6, 7, 8 - Composition of 6, 7, 8 - Sorting 6, 7, 8 - Matching 6, 7, 8	<b>Growing 6, 7, 8</b> - 1 more and 1 less - Making pairs - Combining 2 groups - Adding more	<b>Growing 6, 7, 8</b> - taller and shorter - longer and shorter - Days of the week - Measuring time	<b>Consolidation</b>
<b>Year 1</b>	<b>Number: Addition and Subtraction (within 20)</b> <b>COLD TASK</b> - Add by counting on - Add ones - Find/make bonds	<b>Number: Addition and Subtraction (within 20)</b> - Add by making 10 - Subtraction - not crossing 10 - Subtraction - count back	<b>Number: Addition and Subtraction (within 20)</b> - Subtraction - cross 10 - Related facts - Compare number sentences. <b>HOT TASK</b>	<b>Number: Place Value (within 50)</b> <b>COLD TASK</b> - Numbers to 50 - Count forwards and backwards - Tens and ones	<b>Number: Place Value (within 50)</b> - Represent numbers to 50 - One more one less - Compare objects - Compare numbers	<b>Number: Place Value (within 50)</b> - Order numbers - Count in 2's - Count in 5's <b>HOT TASK</b>	<b>Consolidation</b> <b>Number: Place Value (within 50)</b> <b>Number: Addition and Subtraction (within 20)</b> <b>ARITHMETIC TEST</b>
<b>Year 2</b>	<b>Number: Multiplication and Division</b> - Divide by 2 - Odd and even numbers - Divide by 5 - Divide by 10	<b>HOT TASK</b> <b>Consolidation</b> <b>Measurement: Money</b>	<b>Statistics</b> <b>COLD TASK</b> - Make tally charts - Draw pictograms 1:1 - Interpret pictograms 1:1	<b>Statistics</b> - Draw/interpret pictograms (2, 5, 10) - Block graphs <b>HOT TASK</b>	<b>Geometry: Properties of Shape</b> <b>COLD TASK</b> - Recognise 2-D and 3-D shapes - Count sides/vertices on 2D shapes - Lines of symmetry	<b>Geometry: Properties of Shape</b> - Sort 2D shapes - Count edges, faces and vertices on 3D shapes - Sort 2D shapes	- Make patterns with 3D shapes <b>HOT TASK</b> <b>Consolidation</b> <b>Number: Multiplication and Division</b>

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## Spring 2

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
Nursery	<b>Alive in 5!</b> - Solve real world mathematical problems with numbers up to 5.	<b>Alive in 5!</b> - Make comparisons between objects relating to size, length, weight and capacity. (Numerical Patterns)	<b>Alive in 5!</b> - Make comparisons between objects relating to size, length, weight and capacity. (Numerical Patterns)	<b>Alive in 5!</b> - Make comparisons between objects relating to size, length, weight and capacity. (Numerical Patterns)	<b>Consolidation</b>	<b>Growing 6, 7, 8</b> - Representing number to 8
Reception	<b>Building 9 and 10</b> - Representing 9 10 - Composition of 9 10 - Sorting 0—10 - Ordering 0—10	<b>Building 9 and 10</b> - Numbers to 10 Bingo - Count back from 10 - Compare 0—10 - Make 10	<b>Building 9 and 10</b> - 3D shape matching - Build with 3D shapes - Print with 3D shapes - Patterns	<b>Consolidation</b>	<b>To 20 and Beyond</b> - Number Patterns to 20 - Matching pictures/numerals - Ten frame - fill beyond 20 - Estimating game	<b>To 20 and Beyond</b> - Ten frame - subtraction - Missing numbers - Ordering numerals to 20 - Race to 20 game - Bingo - numbers to 20
Year 1	<b>Measurement: Length and Height</b> <b>COLD TASK</b> - Compare lengths - Compare heights - Measure using non standard units	<b>Measurement: Length and Height</b> - Using a ruler - Measure lengths - Problem solving <b>HOT TASK</b>	<b>Measurement: Weight and Volume</b> <b>COLD TASK</b> - Introduce weight & mass - Measure mass - Compare mass	<b>ASSESSMENT WEEK</b> TIMES TABLE TEST ARITHMETIC TEST PUMA TEST	<b>Measurement: Weight and Volume</b> - Introduce capacity and volume - Measure capacity - Compare capacity <b>HOT TASK</b>	<b>Consolidation</b> Number: Place Value (within 50) Number: Addition and Subtraction (within 20)
Year 2	<b>Number: Fractions</b> <b>COLD TASK</b> - Make equal parts - Recognise a half - Find a half - Recognise a quarter	<b>Number: Fractions</b> - Find a quarter - Recognise a third - Find a third - Unit fractions - Non unit fractions	<b>Number: Fractions</b> - Equivalence of a half and 2 quarters - Find three quarters - Count in fractions - Problem solving <b>HOT TASK</b>	<b>ASSESSMENT WEEK</b> TIMES TABLE TEST ARITHMETIC TEST PUMA TEST <b>Consolidation</b>	<b>Measurement: Length and Height</b> <b>COLD TASK</b> - Measure lengths (cm/m) - Compare lengths - Order lengths - Problem solving	<b>Geometry: Position and Direction</b> - Describing movements and turns <b>HOT TASK</b>

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## Summer 1

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
<b>Nursery</b>	<b>Growing</b> 6, 7, 8 - Composition of numbers to 8	<b>Growing</b> 6, 7, 8 - Comparing and sorting numbers to 8	<b>Growing</b> 6, 7, 8 - Experiment with their own symbols and marks as well as numerals.	<b>Growing</b> 6, 7, 8 - long and short - tall and short	<b>Consolidation</b>	<b>HALF TERM HOLIDAYS</b>
<b>Reception</b>	<b>To 20 and Beyond</b> - Spatial reasoning - Match, rotate, manipulate shapes	<b>First Then Now</b> - Counting on - Adding more	<b>First Then Now</b> - Counting back - Taking away	<b>First Then Now</b> - Spatial reasoning - Compose and decompose shapes	<b>Consolidation</b>	
<b>Year 1</b>	<b>Number: Multiplication and Division</b> <b>COLD TASK</b> - Recap - Count in 2's / 5's - Count in 10's - Make equal groups - Add equal groups	<b>Number: Multiplication and Division</b> - Make arrays - Make doubles - Make equal groups - grouping	- Make equal groups - sharing <b>HOT TASK</b> <b>Consolidation</b> <b>Geometry: Shape</b>	<b>Number: Fractions</b> <b>COLD TASK</b> - Make a half - Make a whole - Find a half - Find half of a quantity	<b>Number: Fractions</b> - Make a quarter - Find a quarter - Find a quarter of a quantity <b>HOT TASK</b>	
<b>Year 2</b>	<b>Measurement: Time</b> <b>COLD TASK</b> - O'clock and half past - Quarter past and quarter to - Telling time to 5 minutes	<b>Consolidation</b> <b>Number: Fractions</b> <b>Number: Multiplication and Division</b> <b>Number: Addition and Subtraction</b>	<b>KS1 SATS WEEK</b>	<b>Measurement: Time</b> - Hours and days - Find durations of time - Compare durations of time <b>HOT TASK</b>	<b>Measurement: Mass, Capacity and Temperature</b>	

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## Summer 2

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7
<b>Nursery</b>	<b>Building 9 and 10</b> - Representing 0 - 10	<b>Building 9 and 10</b> - Composition of numbers to 10	<b>Building 9 and 10</b> - Link numerals and amounts	<b>Building 9 and 10</b> - Extend and create ABAB patterns - stick, leaf, stick, leaf.	<b>Building 9 and 10</b> - Notice and correct an error in a repeating pattern.	<b>Building 9 and 10</b> - Build with 3D shapes - Print with 3D shapes	<b>Consolidation</b>
<b>Reception</b>	<b>Find My Pattern</b> - Doubling	<b>Find My Pattern</b> - Sharing and grouping	<b>Find My Pattern</b> - Odd and even numbers	<b>On The Move</b> - Problem solving	<b>On The Move</b> - Patterns and relationships	<b>On The Move</b> - Spatial reasoning - Mapping	<b>Consolidation</b>
<b>Year 1</b>	<b>Geometry: Position and Direction</b> - Describe turns - Describe positions	<b>Number: Place Value (within 100)</b> <b>COLD TASK</b> - Count to 100 - Count forwards and backwards - Introduce 100 square	<b>Number: Place Value (within 100)</b> - Partition numbers - Comparing numbers - Ordering numbers - One more one less <b>HOT TASK</b>	<b>Consolidation</b> <b>Number: Multiplication and Division</b> <b>Number: Fractions</b>	<b>Measurement: Money</b> <b>COLD TASK</b> - Recognise coins - Recognise notes - Counting in coins	<b>Measurement: Time</b> - Before and after - Dates - Time to the hour - Time to half the hour <b>HOT TASK</b>	<b>Consolidation</b> <b>Number: Place Value (within 100)</b>
<b>Year 2</b>	<b>Measurement: Mass, Capacity and Temperature</b>	<b>Measurement: Mass, Capacity and Temperature</b>	<b>Measurement: Mass, Capacity and Temperature</b>	<b>Consolidation and problem solving</b> <b>Number: Place Value</b>	<b>Consolidation and problem solving</b> <b>Number: Addition and Subtraction</b>	<b>Consolidation and problem solving</b> <b>Number: Multiplication and Division</b>	<b>Consolidation and problem solving</b>



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## Mental Maths



	Autumn	Spring	Summer
Nursery	Fast recognition of up to 3 objects, without having to count them individually ('subitising').	Say one number for each item in order: 1,2,3,4,5. - Show 'finger numbers' up to 5.	Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.
Reception	Subitise (recognise quantities without counting) up to 5	Have a deep understanding of number to 10, including the composition of each number	-Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. -Verbally count beyond 20, recognising the pattern of the counting system;
Year 1	Count to and across 50. identify one more and one less use number bonds and related subtraction facts within 10	Count to and across 50, forwards and backwards, beginning with 0 or 1, or from any given number Count in multiples of twos -use number bonds and related facts within 20 -Recall and use doubles of all numbers to 10	-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 -use number bonds and related subtraction facts within 20 -Recall and use doubles of all numbers to 10 and corresponding halves
Year 2	-Partition numbers in different ways (for example, $23 = 20 + 3$ and $23 = 10 + 13$ ) -Compare and order numbers from 0 up to 100 -Find 1 or 10 more or less than a given number	- Count in steps of 2 and 5 from 0, and in tens from any number, forward and backward Recall and use addition and subtraction facts to 20 fluently - a two-digit number and ones - a two-digit number and tens - two two-digit numbers - adding three one-digit numbers	-Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward -Round numbers to at least 100 to the nearest 10 -derive and use related facts up to 100