

ACE Mathematicians	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
<b>Number</b>									
<b>Place Value</b>									
<b>Math Language</b> <b>Count</b> <b>Read &amp; write</b> <b>Identify and</b> <b>represent</b> <b>Sequence</b>	<b>GEN</b>	I can join in with counting songs	I can count to 10 reliably forwards	<b>Numbers to 10:</b>	<b>Numbers to 10:</b>	<b>Numbers to 1000:</b>	<b>Counting in 1000s</b>	<b>Numbers to 1 000 000</b>	<b>Numbers to 10 million</b>
		I can join in with counting small amounts	I can recognise numerals to 5	Counting to 10	Count numbers up to 100	Counting in 100s, 10ss and 1s	Counting in 1000s, 100s, 10s and 1s	Reading and writing numbers	Reading and Writing Numbers to 10 Million
		I can recite numbers to 5	I can count out the correct number of objects to 10	Counting objects to 10	Place value	Place value	Using places value	Comparing	
		I spontaneously use number language in my play	I can count out the correct number of objects to 10	Writing to 10	Compare numbers	Place value	Comparing and ordering numbers	Comparing	Comparing Numbers to 10 Million
		I can independently sing counting songs often getting the numbers in the correct order	I can recognise simple 2D shapes	Counting with 0	Number bonds	Comparing and ordering numbers	Comparing and ordering numbers	Making number patterns	Comparing Numbers to 10 Million
		I am developing an awareness of the written form of number and numerals	I can estimate how many objects	Comparing objects		Counting in 50s	Making number patterns	Rounding numbers	Comparing and Ordering Numbers to 10 Million
		I am beginning to show an interest in recording my findings	I can see and check by counting	Ordering numbers		Number Patterns	Counting in 6s, 7s and 9s		
		I can confidently count, often getting the numbers in the correct order	I can recite numbers in order to 10	Comparing numbers		Counting in 4s and 8s	Rounding numbers		Rounding Numbers
		I can select the correct amount of	I can compare two groups of objects saying when they have the same number	Counting to 20			Rounding numbers to estimate		
			I can recognise numerals to 10	Writing to 20			Writing Roman Numerals 1 to 20		
		Comparing numbers			Writing Roman Numerals-100				
		Ordering numbers							
		Number patterns							
		Counting to 40							

		<p>objects with numbers 1-3</p> <p>I can count reliably to 10</p> <p>I can use counting spontaneously in my play</p> <p>I can begin to select the correct numeral to represent numbers of personal significance</p> <p>I can count reliably to 10 and sometimes to 20</p> <p>I can select numerals to match spoken numbers to 10</p> <p>I can check amounts in groups by counting</p>	<p>I can order numerals to 10</p> <p>I can count actions or objects which cannot be moved</p> <p>I can select the correct numeral to represent 1 to 10 objects</p> <p>I can count backwards from 10 to 0 and then 20 to 0</p> <p>I can count an irregular arrangement of up to 10 objects</p> <p>I am starting to recognise teen numbers and can pronounce these accurately</p>	<p>Writing numbers to 40</p> <p>Counting in tens and ones</p> <p>Comparing numbers</p> <p>Finding how much more</p> <p>Making number patterns</p>					
<b>Addition and Subtraction</b>									
Math Language Written methods	GEN		<p>I can use language of more and fewer to compare two sets of objects</p> <p>I can say 1 less than a number</p> <p>I can subtract</p>	<p><b>Addition Within 10:</b></p> <p>Making number bonds</p> <p>Ways to add</p>	<p><b>Addition and Subtraction:</b></p> <p>Single digit to 2 digit number</p> <p>Simple addition of 10s and 1s</p>	<p><b>Addition and subtraction</b></p> <p>Counting on to add</p>	<p><b>Addition and subtracting within 10 000</b></p> <p>Finding sums</p> <p>Adding with renaming</p>	<p><b>Addition and Subtraction</b></p> <p>Counting on to add</p> <p>Counting on to subtract</p>	

			to 10	<p>Add by counting on</p> <p>Completing number sentences</p> <p>Making addition stories</p> <p>Solving picture problems</p> <p>Ways to subtract</p> <p>Subtracting using number bonds</p> <p>Subtracting by counting back</p> <p>Making subtraction stories</p> <p>Solving picture problems</p> <p>Addition and subtraction</p> <p>Ways to add</p> <p>Add by making 10</p> <p>Add by adding ones</p> <p>Counting back</p>	<p>Two 2 digit numbers</p> <p>Subtracting units from a 2 digit number</p>	<p>Counting backwards to subtract</p> <p>Adding within 1 000 000</p> <p>Adding and Subtracting within 1 000 000</p>	<p>Adding using mental strategies</p> <p>Finding differences</p> <p>Subtracting without renaming</p> <p>Subtracting with renaming</p> <p>Subtracting using mental strategies</p> <p>Solving word problems</p>	<p>Adding within 1000000</p> <p>Subtracting within 1000000</p>	
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				Subtract ones Subtract from 10 Addition and Subtraction facts Finding how much more Making number patterns Addition and Subtraction Word Problems					
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**Multiplication and division**

<b>Math Language</b>	<b>GEN</b>		I can solve doubling, halving and sharing problems  I can share objects into equal groups	<b>Multiplication</b> Making equal groups Adding equal groups Making equal rows Making doubles Solving word problems	<b>Multiplication of 2, 5 and 10:</b> Multiplication as equal groups Times tables Multiplying by 2,5 and 10 <b>Multiplication and Division of 2, 5 and 10:</b> Grouping	<b>Multiplication and division:</b> Multiplying by 3, 4, 8: Dividing by 3, 4 and 8 Multiplying 2-digit numbers Dividing 2-digit numbers	<b>Multiplication and division</b> Multiplying by 6,7, 9, 11, 12 Dividing by 6, 7, 9 Multiplying and dividing by 11 and 12 Dividing with remainder	<b>Whole Numbers: Multiplication and Division:</b> Finding multiples Finding factors Finding prime numbers Finding square and cube numbers	<b>Four operations on whole numbers</b> Using Mixed Operations Multiplying by 2-Digit Numbers Dividing by 2-Digit Numbers Solving Word Problems
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				<p>Making equal groups</p> <p>Adding equal groups</p> <p>Making equal rows</p> <p>Making doubles</p> <p>Solving word problems</p>	<p>Sharing</p> <p>Dividing by 2, 5 and 10</p> <p>Using multiplication and division skills</p> <p>Odd and even numbers</p>		<p>Solving word problems</p> <p>Multiplying by 0 dividing by 1</p> <p>Multiplying the same two numbers</p> <p>Multiplying 3 numbers</p> <p>Multiplying multiples of 10</p> <p>Multiplying 2-Digit numbers</p> <p>Multiplying multiples of 100</p> <p>Multiplying 3-Digit numbers</p> <p>Dividing 2-Digit numbers</p> <p>Dividing 3-Digit numbers</p>	<p>Multiplying by 10, 100 and 1000</p> <p>Multiplying 2-digit and 3-digit numbers by a Single Digit</p> <p>Multiplying 4-digit Numbers</p> <p>Multiplying a 2-digit Number by a 2 digit number</p>	<p>Finding Common Multiples</p> <p>Finding prime numbers</p>
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**Fractions**

<b>Math Language</b>	<b>GEN</b>			<p>Making halves</p> <p>Making groups</p>	<p><b>Fractions:</b></p> <p>Halves</p> <p>Quarters</p> <p>Thirds</p>	<p><b>Fractions:</b></p> <p>Counting in tenths</p> <p>Adding fractions</p> <p>Subtracting</p>	<p><b>Fractions:</b></p> <p>Counting in 100ths</p> <p>Writing mixed numbers</p>	<p><b>Fractions:</b></p> <p>Dividing to make Fractions</p> <p>Writing Improper Fractions and Mixed Numbers</p>	<p><b>Fractions:</b></p> <p>Simplifying fractions</p> <p>Comparing and ordering fractions</p>
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					Use numerator and denominator	fractions	Showing mixed numbers on a number line	Finding Equivalent Fractions	Adding and subtracting fractions
					Recognise equivalent fractions	Finding equivalent fractions	Finding equivalent fractions	Comparing and Ordering Fractions	Multiplying fractions
					Compare and order	Finding the simplest fraction	Simplifying mixed numbers	Making Number Paris	Dividing a fraction by a whole number
					Count the number of wholes and parts to form mixed numbers	Sharing	Simplifying improper fractions	Adding Fractions	
							Adding fractions	Subtracting Fractions	
							Subtracting fractions		
							Solving word problems		

**Decimals**

			I can begin to use everyday language related to money	Recognising coins	<b>Money:</b>	Money:	Writing tenths	Writing decimals	Writing and reading decimals
				Recognising notes	Writing amounts of money	Naming, adding and subtracting	Writing hundredths	Reading and writing decimals	Dividing whole numbers
					Recognise value of notes		Writing decimals	Comparing decimals	Writing fractions as decimals
					Recognise value of coins		Comparing and ordering decimals	Writing fractions as decimals	Multiplying decimals
					Create equal amounts of money using different coins		Making number patterns		

					<p>To exchange denominations of money for different coins</p> <p>Calculate change from £100 or less</p> <p>Use bar model</p>		<p>Rounding decimals</p> <p>Writing fractions as decimals</p> <p>Dividing whole numbers by 10</p> <p>Dividing whole numbers by 100</p> <p>Writing amounts of money</p> <p>Comparing amounts of money</p> <p>Rounding amounts of money</p> <p>Solving problems involving money</p> <p>Estimating amounts of money</p>	<p>Adding and subtracting decimals</p>	<p>Dividing decimals</p> <p>Multiplying a Decimal by a 2-Digit Whole Number</p> <p>Dividing a Decimal by a 2-Digit Whole Number</p> <p>Dividing a Decimal by a 2-Digit Whole Number</p>
<b>Percentage</b>									
								<p>Comparing quantities</p> <p>Finding percentages</p>	<p>Finding the Percentage of a Number</p>

									Finding the Percentage of a Quantity
									Finding Percentage Change
									Using Percentage to Compare

**Measurement**

<b>Math Language</b>	<b>GEN</b>	I can talk about size of objects with the support of an adult	<p>I can order two or three items by length or height</p> <p>I can order two items by weight or capacity</p> <p>I can talk about size and weight</p> <p>I can explore everyday objects</p> <p>I can talk about size, weight, capacity, position, distance, time and money</p> <p>I can talk about position and time</p>	<p>Comparing volume and capacity using 'More than' less than, full and empty</p> <p>Find volume and capacity of a container using non-standard units</p> <p>Describing volume using half and quarter</p> <p>Compare mass using heavy, light heavier than, lighter than, as heavy as</p> <p>Find mass of object using</p>	<p><b>Mass:</b></p> <p>Measuring mass in kilograms, grams</p> <p>Comparing mass of 2 objects</p> <p>Comparing mass of 3 objects</p> <p>Use scales and balances to measure mass accurately</p> <p><b>Temperature:</b></p> <p>Reading temperature</p> <p>Estimating temperature</p> <p><b>Time:</b></p>	<p>Length:</p> <p>Writing length in metres, centimetres, kilometres</p> <p>Comparing lengths</p> <p>Mass:</p> <p>Reading weighing scales</p> <p>Volume:</p> <p>Measuring in millilitres</p> <p>And litres</p> <p>Measuring in seconds, minutes and hours</p>	<p>Telling time on a 24-Hour clock</p> <p>Changing time in minutes to seconds and hours to minutes</p> <p>Solving problems on duration of time</p> <p>Changing years to months and weeks to days</p> <p>Solving word problems</p> <p>Measuring mass</p> <p>Converting units of mass</p>	<p>Converting Units of length</p> <p>Converting units of mass</p> <p>Converting units of volume</p> <p>Converting units of time</p> <p>Telling the temperature</p> <p>Finding the Perimeter</p> <p>Using scale diagrams to Find the Perimeter</p> <p>Measuring the Area</p>	<p>Converting Units of length</p> <p>Converting units of mass</p> <p>Converting units of volume</p> <p>Converting units of time</p>
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				non-standard units Telling time to the hour Telling time to half hour Using next, before, after Estimating duration of time Comparing time Using a calendar	Tell and write time to 5 minute intervals Sequence events of day <b>Volume</b> Comparing Volume Measuring volume in litres Measuring volume in millimetres Solving word problems	Changing minutes to seconds Seconds to minutes Measuring total length around shape Measuring perimeter Calculating perimeter	Measuring volume Converting units of volume Measuring height Converting units of length Measuring perimeters in different units Solving problems involving scale reading Measuring the surface that an object covers Measuring area		
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**Geometry**

<b>Math Language</b>	<b>GEN</b>	I can begin to recognise shape in the environment I am aware of shape and how shape is viewed in the environment I can recognise simple 2D shapes	I can begin to name 3D shapes I can use some mathematical language linked to shape I recognise and create patterns I explore characteristic of everyday objects	Recognising solids, spheres, cubes, cuboids, pyramids Recognise 2D shapes in everyday environment Grouping shapes	<b>Two-Dimensional Shapes</b> Identifying sides Identifying Vertices Identifying Lines of Symmetry Making Figures	Making angles Finding Right angles in shapes Comparing angles Making turns	Comparing angles Classifying triangles And quadrilaterals Identifying symmetrical figures	Knowing Types of Angles Measuring Angles Investigating Angles on a Line Investigating Angles at a Point	Investigating Vertically Opposite Angles Solving Problems Involving Angles
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				Making patterns	Sorting Shapes Drawing Shapes Making patterns Describing Patterns Moving Shapes Turning Shapes <b>Three-Dimensional Shapes</b> Recognising Three-Dimensional Shapes Describing Three-Dimensional Shapes Grouping Three-Dimensional Shapes Making Patterns		Lines of Symmetry Sorting shapes	Drawing Angles Drawing Lines and Angles Describing Squares and Rectangles Investigating Angles in Squares and Rectangles	Investigating Angles in Triangles Investigating Angles in Quadrilaterals Solving Problems Involving Angles in Triangles and Quadrilaterals Naming Parts of a Circle Solving Problems Involving Angles in a Circle Drawing Quadrilaterals Drawing Triangles Drawing Nets of Three-Dimensional Shapes
<b>Statistics</b>									
Math Language	<b>GEN</b>			Positional language	<b>Picture Graphs:</b>	Picture graphs and bar graphs	Drawing and reading picture graphs, bar	Reading tables	Understanding Averages





