



Mathematics Curriculum & Progression

Our school is a beacon of light. A place where every child and adult is encouraged to shine brightly and reach their full potential. Through curiosity, courage, and compassion, we shine like a lamp in our classrooms, like a village on a hill in our community, and like shining stars across the wider world.



Mathematics Curriculum Yearly Overview

	Autumn		Spring		Summer	
	Impact & Power Year A	Responsibility & Risk Year B	Perspective & Empathy Year A	Culture & Diversity Year B	Celebration & Change Year A	Reflection & Legacy Year B
Year 5/6	Number- Place Value Number- Addition & Subtraction Number- Multiplication & Division A	Number- Fractions A Number- Multiplication and Division B	Number- Multiplication & Division B Number- Fractions B Number- Decimals A Measurement- Area, Perimeter & Volume	Measurement- Area, Perimeter & Volume Number- Decimals B Number- Fractions, Decimals & Percentages	Ratio Algebra Geometry- Shape	Geometry- Position & Direction Statistics Measurement- Converting Units
Year 3/4	Number- Place Value Number- Addition & Subtraction	Number- Addition & Subtraction Number- Multiplication & Division A Measurement- Area	Number- Multiplication & Division B Measurement- Length & Perimeter Number- Fractions A	Number- Fractions A Measurement- Mass & Capacity Number- Fractions B	Measurement- Time Number- Decimals Measurement- Money	Measurement- Money Geometry- SHAPE Geometry- Position & Direction Statistics
Year 1/2	Number- Place Value Number- Addition & Subtraction	Number- Place Value Geometry- Shape	Number- Addition & Subtraction Number- Multiplication & Division	Number- Multiplication & Division Measurement- Length & Height Statistics	Measurement- Money Number- Fraction Measurement- Time	Measurement- Mass, Capacity & Temperature Geometry- Position & Direction
EYFS	Match and sort Compare amounts Mass & Capacity	It's me 123 2d shapes	Alive in 5 Introducing 0 Making pairs	Building 9 & 10 3 d shapes	To 20 and beyond Adding more Taking away	Find my pattern Doubling Sharing and grouping Odd & even

An inclusive Mathematics Curriculum: Supporting Children with SEND

At Stelling Minnis CE Primary School, we believe all pupils should have the opportunity to learn to the best of their capabilities through a broad and balanced, inclusive curriculum. For our pupils with a Special Educational Need, we scaffold their learning to provide them with the strongest opportunities for success in our school. We

believe firmly in the SEND Code of Practice's statement that 'every teacher is a teacher of SEN' and that our pupils with SEN should be provided with the same opportunities as their peers in our school. This means that, with their learning being personalised to meet their areas of need, they feel included in the classroom and make progress year on year. Reasonable adjustments are made in all lessons to enable this. When planning for Art & Design, class teachers will adapt their lessons where necessary using ideas taken from this list, however it is important to remember this list is not exhaustive and other adaptations may be needed for children with specific needs

Resources	Multi Sensory	Teacher Communication	Assessment
<ul style="list-style-type: none">• Displays for access of information• Maths manipulatives are clearly labelled and accessible, including counters, cubes, dienes, number lines, 100 squares, bead strings, place value charts and shapes, numicon etc• Use of concrete–pictorial–abstract (CPA) approach to make concepts accessible.• Alternative recording methods (stickers, stamps, adapted worksheets).• Assistive technologies such as talking calculators and maths apps.• Visual supports including worked examples, anchor charts, learning mats.• Adapted seating and workspace for fine-motor or sensory needs	<ul style="list-style-type: none">• Extra time to explore physical resources.• Real-life objects used to teach concepts.• Multi-sensory delivery: touching, building, drawing, verbalising.• Tactile or sensory-friendly tools (textured number lines, sand trays).• Visual scaffolds consistently available.• Movement opportunities for kinaesthetic learners.	<ul style="list-style-type: none">• Instructions broken into small, manageable steps.• Pre-teach and over-learn mathematical vocabulary.• Use child-friendly wording.• Alternative communication modes (signing, symbols).• Regular checks for understanding.• Consistent use of mathematical language across adults.	<ul style="list-style-type: none">• Assessment informs immediate task adaptation.• Practical assessment using observations and manipulatives.• Multiple ways to demonstrate understanding (drawing, building, talking).• Revisit learning when concepts are not yet secure.• Track progress through concrete–pictorial–abstract evidence.• Small-step targets for achievable progress.

Mathematics Vocabulary Progression

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number and place value	Count Subitise Order/ ordinal Compare Forwards Backwards Numerals Digit One more One less Equal to More than Less than (fewer)	Sort Represent Multiples Partitioning Ones tens	Count in steps Count in multiples Place value Estimate compare	Ascending Descending 10 or 100 more 10 or 100 less hundreds	Negative numbers Roman numerals 1000 more 1000 less Thousands round	Ten thousand One hundred thousands Powers of integer	Millions Ten millions
Addition & Subtraction	Add Plus Altogether Total Take away/ minus Number bonds Part Whole digit	Addition/ add Subtraction Difference Equals Facts Problems Missing number problems 2 digit number	Sum 3 digit number commutative	Column addition Column subtraction Exchange Estimate	4 digit number Operations methods		
Multiplication & Division	Double Half Twice as many Equal Unequal Share Group Odd even	Multiplication Division Arrays	Multiplication tables Commutative Repeated addition	Exchange Mathematical statements Missing number problems Integer scaling problems Correspondence problems Derived facts	Factor pairs Formal written layout Distributive law remainders	.multiples Factors Prime numbers Square numbers Cube numbers Short division Product Dividend Divisor Quotient operations	Multi-digit numbers Long division

Mathematics Vocabulary Progression							
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement (Time)	Time Quicker Slower Earlier Later Before After First Next Today Tomorrow Yesterday Morning Afternoon Evening Day Week Hour Minutes	Chronological order Days of the week Months of the year Month Year O'clock Half past Second	Intervals of time Quarter to Quarter past duration	Analogue clock Roman numerals 12 hour clock 24 hour clock a.m./ p.m. Noon Midnight Leap year Digital	convert	Timetable	
Measurement (Money)		Money Coins Notes Pounds £ Pence p	Value Change				
Measurement (Measure & Length)	Measure Wide/ wider Narrow/narrower Compare Long/ longer/ longest Short/ shorter/ shortest length	compare	Standard units Estimate Order Record results Centimetre cm Metre m	Millimetre mm perimeter	Kilometres km Rectilinear figure/ shape area	decimal notation Scaling Metric units Imperial units Inches Compound shape Irregular shape Square centimeters Square meters	Conversion Miles Formulae Parallelograms Triangles feet

Mathematics Vocabulary Progression

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement (Height, Weight and Capacity)	Height Long/ longer/ longest Short/ shorter/ shortest Tall/ taller/ tallest Weight Capacity Heavy/ light Heavier than Lighter than Big/ bigger/ biggest Full/ empty More than Less than Half/ half full/ half empty	Mass volume	Kilogram kg Gram g Quarter full Three quarters full Litres l Millilitres ml Temperature Celsius			Cubic centimetre Pounds Pints	Cubic metre Cubic millimetre Cubic kilometre Gallons Stones Ounces
Geometry (Properties of Shape)	2D shapes Rectangle Square Circle Triangle Characteristics 3D shapes Cuboids Cubes Cone Sphere Curved Straight Flat	Sides Corners Properties Pyramids faces	Pentagon Hexagon Line of symmetry Properties Cylinder Edges Vertices vertex	Right angle triangle Heptagon Octagon Polygon Properties Prism Orientations Angles Acute angle Obtuse angle Turn Right angle Half turn Three quarters of a turn Greater than right angle Less than right angle Horizontal lines Vertical lines Perpendicular lines Parallel lines	Isosceles Equilateral Scalene Trapezium Rhombus Properties Parallelogram Kite Geometric shapes quadrilaterals	Regular polygon Irregular polygon Reflex angles Degrees One whole turn Angles on a straight line Angles around a point Vertically opposite Missing angles	Radius Diameter Circumference dimensions

Mathematics Vocabulary Progression							
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Geometry (Position & Direction)	Over/ under Between/ around Through On/ into Next to/ on top of Behind/ beneath Order Repeat patterns	Position Direction Movement Whole turn Quarter turn Half turn Three quarter turn	Clockwise Anti clockwise Straight line Rotation Arrange sequences		Co-ordinates First quadrant Grid Translation Plot Polygon axis	reflection	Four quadrants Negative Co-ordinate plane
Ratio & Proportion							Relative size Missing values Integer multiplication Percentages Scale factor Unequal sharing and grouping
Statistics			Pictograms Tally chart Block diagram Category Sorting Totalling Comparing Horizontal Vertical	Table Bar chart One step problem Two step problem	Time graph Discreet data Continuous data Line graph Comparison problem Sum problem Difference problem Calculate interpret	Timetable Two way table	Pie chart Mean
Algebra							Formulae Linear number sequences Algebraically Equation Unknowns Combinations variables

An overview of the progression of manipulatives

This is a guide only. Other resources may be used as appropriate, including in different year groups depending on the needs of the pupils.

Mathematics Learning & Progression

Year Group	Impact & Power		Perception & Empathy		Celebration & Change	
	Autumn 1	Autumn 1	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Match and sort Compare amounts Mass & Capacity	It's me 123 2d shapes	Alive in 5 Introducing 0 Making pairs	Building 9 & 10 3 d shapes	To 20 and beyond Adding more Taking away	Find my pattern Doubling Sharing and grouping Odd & even
Year 1/2	Small Steps Place Value (within 20) Count objects within 10 Represent numbers to 10 Count on and back within 20 Understand 10 Understand 11-15 Understand 16-20 1 more 1 less Number lines Estimate on a number line Less than, greater than, equal to Compare numbers Order numbers	Small Steps Place Value (Within 100) Count beyond 20 Count tens Groups of tens and ones Partition into tens and ones Use a place value chart Flexible Partitioning Number lines Estimate on a number line 1 more and 1 less Compare numbers with the same number of tens Compare any two numbers Order objects and numbers	Small Steps Addition & Subtraction (within 100) Related facts Add and subtract 1s Add to the next 10 Add to a 10 Add across a 10 Subtract to a 10 Subtract from a 10 Subtract across a 10 Add 10s Subtract 10s Add two 2 digit numbers- not across a 10 Add two 2 digit numbers across a 10 Subtract two 2 digit numbers- not across a 10 Subtract two 2 digit numbers- across a 10 Mixed addition and subtraction Compare calculations	Small Steps Multiplication & Division The 10 times table Divide by 10 The 5 times table Divide by 5 The 5 and 10 times tables	Small Steps Money Recognise coins and notes Count money- pence Count money- pounds 9notes & coins) Count money- pounds and pence Choose notes and coins Compare amounts of money Calculate with money Make a pound Find change	Small Steps Time Months & days Hours, minutes & seconds O'clock and half past Quarter past Tell the time past the hour Quarter to Tell the time to the hour Tell the time to 5 minutes Minutes in an hour Hours in a day Solve problems with time
	Addition & Subtraction (Within 20) Parts & Wholes Systematic number bonds within 10 Number bonds to 10 Number bonds to 20 Addition- add together Addition- add more	Shape Recognise and name 2D and 3D shapes Count sides on 2D shapes Count vertices on 2D shapes Draw 2D shapes Vertical lines of symmetry Count faces on 3D shapes Count vertices on 3D shapes	Multiplication & Division Count in 2s, 5s and 10s Count in 3s Recognise equal groups Make equal groups Add equal groups Make arrays Multiplication sentences Commutativity	Statistics Tally Charts Tables Block diagrams Draw pictograms Interpret Pictograms	Fractions Parts & wholes Equal and unequal parts Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third Find a third	Position and Direction Language of position Describe movement Describe turns Describe movement and turns

	Doubles Near Doubles Add three 1-digit numbers Find a part Fact Families- the eight facts Take away (how many left) Find the difference Missing number problems	Sort 2D and 3D shapes Patterns with 2D and 3D shapes	Make equal groups- grouping Make equal groups- sharing The 2 times table Divide by 2 Doubling and halving Odd and even numbers		Find the whole Unit fractions Non-Unit fractions Recognise the equivalence of a half and two- quarters Recognise three quarters Count in fractions up to a whole	
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Year 3 & 4	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Small Steps	Small Steps	Small Steps	Small Steps	Small Steps	Small Steps
	Place Value Hundreds, tens and ones Represent numbers to 1000 Partition numbers to 1000 Thousands Represent numbers to 10000 Partition numbers to 10000 Flexible portioning Find 1, 10, 100 or 1000 more or less Number line to 1000 Number line to 10000 Estimate on a number line Compare numbers Order numbers Round to nearest 10 Round to nearest 100 Round to nearest 1000 Round to nearest 10, 100 or 1000 Roman Numerals	Addition & Subtraction Subtract up to two 2 digit numbers across a 10 Subtract up to two 4 digit numbers across a 100 Subtract up to two 4 digit numbers across a 1000 Subtract numbers with a different number of digits Complements to 100 and 1000 Estimate answers Inverse operations Efficient methods	Multiplication & Division Factor pairs Multiply & Divide by 10 and 100 Reasoning about multiplication Multiply three numbers Efficient multiplication Scaling Correspondence problems Multiply up to a 3 digit number by a 1 digit number no exchange Multiply up to a 3-digit number by a 1-digit number – with exchange Related calculations – multiplication and division Divide by a 1-digit number – flexible partitioning Divide up to a 3-digit number by a 1-digit number – no exchange Divide up to a 3-digit number by a 1-digit number – with exchange Divide up to a 3-digit number by a 1-digit number – with remainders	Fractions Understand denominators Compare and order unit fractions Understand numerators Understand the whole Fractions on a number line Compare and order non-unit fractions Equivalent fractions Count beyond 1 Partition a mixed number Compare and order mixed numbers Understand improper fractions Convert mixed numbers to improper fractions Convert improper fractions to mixed numbers Equivalent fraction families	Time Tell the time to 5 minutes Tell the time to the minute Read time on a digital clock Use am and pm Convert between analogue and digital times Convert between 12- and 24-hour clock times Hours, minutes and seconds Find and use durations Years, months, weeks and days	Shape Turns and angles Identify angles Compare and order angles Types of lines Triangles Quadrilaterals Polygons Draw polygons Symmetry 3-D shapes
	Addition & Subtraction Add & subtract 1s, 10s, 100s, 1000s	Multiplication & Division Use arrays Sharing & Grouping	Length & Perimeter Measure in centimetres and millimetres	Mass & Capacity Measure mass in grams	Money Pounds and pence Write money using decimals	Statistics Pictograms Interpret bar charts

	Add 1s, 10s, 100s across a boundary Subtract 1s, 10s, 100s across a boundary Make connections Add up to two 4 digit numbers- no remainders Add up to two 4 digit numbers- across a 10 Add up to two 4 digit numbers across a 100 Add up to two 4 digit numbers across a 1000 Add numbers with a different number of digits Subtract up to two 4 digit numbers- no exchange	2, 5 & 10 times table 4 times table 8 times table 2,4 & 8 times table 3 times table 8 times table 9 times table 3,6,9 times table 7 times table 11 times table 12 times table Multiply by 1 & 0 Divide a number by 1 and itself Area What is area Count squares Make shapes Compare areas	Measure in kilometres and metres Kilometres, metres, centimetres and millimetres Equivalent lengths Add and subtract lengths What is perimeter? Calculate perimeter Perimeter of rectilinear shapes Calculate perimeters of rectilinear shapes Perimeter of polygons	Measure mass in kilograms and grams Equivalent masses Compare mass Add and subtract mass Measure capacity and volume in millilitres Measure capacity and volume in litres and millilitres Equivalent capacities and volumes Compare capacity and volume Add and subtract capacity and volume	Convert pounds and pence Compare amounts of money Estimate with money Add money Subtract money Find change Solve problems with money	Draw bar charts Comparison, sum and difference Interpret line graphs Draw line graphs Two-way tables Collect and represent data
Year 5 & 6	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Small Steps	Small Steps	Small Steps	Small Steps	Small Steps	Small Steps
	Place Value Roman numerals to 1,000 Numbers to 100,000 Numbers to 1,000,000 Read and write numbers to 1,000,000 Numbers to 10,000,000 Read and write numbers to 10,000,000 Powers of 10 Partition numbers to 10,000,000 Number line to 10,000,000 Compare and order any integers Round within 100,000 Round any integer Count through zero	Fractions Recognise equivalent fractions Equivalent fractions and simplifying Equivalent fractions on a number line Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions Compare fractions (denominator) Compare fractions (numerator) Add and subtract fractions with the same denominator Add fractions where one denominator is a multiple of the other	Multiplication & Division Multiply a 2-digit number by a 2-digit number Multiply up to a 4-digit number by a 2-digit number Solve problems with multiplication Short division Divide a 4-digit number by a 1-digit number Division using factors Introduction to long division Long division with remainders Solve problems with division Efficient division Solve multi-step problems Order of operations Mental calculations and estimation	Area, perimeter & Volume Perimeter of rectangles and rectilinear shapes Area of rectangles Area of compound shapes Estimate area Area of triangles Area of parallelograms Volume – cubic centimetres Volume of a cuboid Compare volume Estimate volume and capacity	Ratio Add or multiply? Use ratio language Ratio and fractions Use scale factors Similar shapes Ratio problems Proportion problems	Position & Direction The first quadrant Four quadrants Solve problems with coordinates Translations Lines of symmetry Reflections

<p>Compare and order negative numbers Calculate with negative numbers</p>	<p>Add any two fractions Add mixed numbers Subtract fractions where one denominator is a multiple of the other Subtract any two fractions Subtract from a mixed number Subtract from a mixed number – crossing the whole Subtract two mixed numbers Multi-step problems</p>	<p>Reason from known facts</p>			
		<p>Fractions Multiply a unit fraction by an integer Multiply a non-unit fraction by an integer Multiply a mixed number by an integer Multiply fractions by fractions Divide a fraction by an integer Divide any fraction by an integer Fraction of an amount Fraction of an amount – find the whole</p>	<p>Decimals Use known facts to add and subtract decimals within 1 Complements to 1 Add and subtract decimals across 1 Add decimals with the same number of decimal places Subtract decimals with the same number of decimal places Add decimals with different numbers of decimal places Subtract decimals with different numbers of decimal places Efficient strategies Decimal sequences Multiply by 10, 100 and 1,000 Step 11 Divide by 10, 100 and 1,000 Multiply decimals by integers Divide decimals by integers Multiply and divide decimals in context</p>	<p>Algebra Function machines Form expressions Substitution Formulae Form equations Solve equations Find pairs of values Solve problems with two unknowns</p>	<p>Statistics Draw line graphs Read and interpret line graphs Bar charts Read and interpret tables Read and interpret timetables Read and interpret pie charts Pie charts with percentages Draw pie charts The mean</p>
<p>Addition & Subtraction Mental strategies Step 2 Add integers Step 3 Subtract integers Step 4 Inverse operations and missing numbers Step 5 Reason from known facts</p>	<p>Multiplication & Division Multiply a 2-digit number by a 2-digit number Multiply up to a 4-digit number by a 2-digit number Solve problems with multiplication</p>	<p>Decimals Decimals up to 2 decimal places Decimals up to 3 decimal places Place value – integers and decimals</p>	<p>Fractions, decimals & percentages Equivalent fractions and decimals – tenths Equivalent fractions and decimals – hundredths</p>	<p>Shape Understand and use degrees Classify angles Measure angles Calculate angles around a point Calculate angles on a straight line</p>	<p>Converting Units Kilograms and kilometres Millimetres and millilitres Convert units of length Miles and kilometres Imperial measures Convert units of time</p>

Multiplication & Division Multiples Step 2 Common multiples Step 3 Factors Step 4 Common factors Step 5 Rules of divisibility Step 6 Prime numbers Step 7 Square and cube numbers Step 8 Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000	Short division Divide a 4-digit number by a 1-digit number Division using factors Introduction to long division Long division with remainders Solve problems with division Efficient division Solve multi-step problems Order of operations Mental calculations and estimation Reason from known facts	Order and compare decimals (same number of decimal places) Order and compare any decimals with up to 3 decimal places Round to the nearest whole number Round to 1 decimal place Round to 2 decimal	Equivalent fractions and decimals – thousandths Fractions as division Understand percentages Percentages as fractions Percentages as decimals Equivalent fractions, decimals and percentages Order fractions, decimals and percentages Percentage of an amount	Vertically opposite angles Angles in a triangle Angles in a triangle – special cases Angles in quadrilaterals Regular polygons Irregular polygons Circles Draw shapes 3-D shapes	Calculate with timetables
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