

# Curriculum Intent: MATHEMATICS (2024-25)

Year 5 MATHEMATICS					
ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
<p><b>Number: Place Value [3 weeks]</b>                      Step 1: Roman numerals to 1,000                      Step 2: Numbers to 10,000                      Step 3: Numbers to 100,000                      Step 4: Numbers to 1,000,000                      Step 5: Read and write numbers to 1,000,000                      Step 6: Powers of 10                      Step 7: 10/ 100/ 1,000/ 10,000/ 100,000 more or less                      Step 8: Partition numbers to 1,000,000                      Step 9: Number line to 1,000,000                      Step 10: Compare and order numbers to 100,000                      Step 11: Compare and order numbers to 1,000,000                      Step 12: Round to the nearest 10, 100 or 1,000</p>	<p><b>Number: Multiplication and Division A [3 weeks]</b>                      Step 4: Common factors                      Step 5: Prime numbers                      Step 6: Square numbers                      Step 7: Cube numbers                      Step 8: Multiply by 10, 100 and 1,000                      Step 9: Divide by 10, 100 and 1,000                      Step 10: Multiples of 10, 100 and 1,000</p> <p><b>Number: Fractions [3 weeks]</b>                      Step 1: Find fractions equivalent to a unit fraction                      Step 2: Find fractions equivalent to a non-unit fraction                      Step 3: recognise equivalent fractions                      Step 4: Convert improper fractions to mixed numbers</p>	<p><b>Number: Multiplication and Division B [3 weeks]</b>                      Step 1: Multiply up to a 4-digit number by a 1-digit number                      Step 2: Multiply a 2-digit number by a 2-digit number (area model)                      Step 3: Multiply a 2-digit number by a 2-digit number                      Step 4: Multiply a 3-digit number by a 2-digit number                      Step 5: Multiply a 4-digit number by a 2-digit number                      Step 6: Solve problems with multiplication                      Step 7: Short division                      Step 8: Divide a 4-digit number by a 1-digit number                      Step 9: Divide with remainders                      Step 10: Efficient division</p>	<p><b>Number: Decimals and Percentages [2 weeks]</b>                      Step 6: Thousandths as decimals                      Step 7: Thousandths on a place value chart                      Step 8: Order and compare decimals (same number of decimal places)                      Step 9: Order and compare any decimals with up to 3 decimal places                      Step 10: Round to the nearest whole number                      Step 11: Round to 1 decimal place                      Step 12: Understand percentages                      Step 13: Percentages as fractions                      Step 14: Percentages as decimals                      Step 15: Equivalent fractions, decimals and percentages</p>	<p><b>Geometry: Shape [3 weeks]</b>                      Step 1: Understand and use degrees                      Step 2: Classify angles                      Step 3: Estimate angles                      Step 4: Measure angles up to 180                      Step 5: Draw lines and angles accurately                      Step 6: Calculate angles around a point                      Step 7: Calculate angles on a straight line                      Step 8: Lengths and angles in shapes                      Step 9: Regular and irregular polygons                      Step 10: 3-D shapes</p> <p><b>Geometry: Position and Direction [2 weeks]</b>                      Step 1: Read and plot coordinates                      Step 2: Problem solving with coordinates                      Step 3: Translation</p>	<p><b>Number: Decimals [2 weeks]</b>                      Step 5: Subtract decimals with the same number of decimal places                      Step 6: Add decimals with different numbers of decimal places                      Step 7: Subtract decimals with different numbers of decimal places                      Step 8: Efficient strategies for adding and subtracting decimals                      Step 9: Decimal sequences                      Step 10: Multiply by 10, 100 and 1,000                      Step 11: Divide by 10, 100 and 1,000                      Step 12: Multiply and divide decimals – missing values</p> <p><b>Number: Negative Numbers [1 week]</b></p>

<p>Step 13: Round within 100,000 Step 14: Round within 1,000,000</p> <p><b>Number: Addition and Subtraction [2 weeks]</b> Step 1: Mental strategies Step 2: Add whole numbers with more than four digits Step 3: Subtract whole numbers with more than four digits Step 4: Round to check answers Step 5: Inverse operations (addition and subtraction) Step 6: Multi-step addition and subtraction problems Step 7: Compare calculations Step 8: Find missing numbers</p> <p><b>Number: Multiplication and Division [1 week]</b> Step 1: Multiples Step 2: Common multiples Step 3: Factors</p>	<p>Step 5: Convert mixed numbers to improper fractions Step 6: Compare fractions less than 1 Step 7: Order fractions less than 1 Step 8: Compare and order fractions greater than 1 Step 9: Add and subtract fractions with the same denominator Step 10: Add fractions within 1 Step 11: Add fractions with total greater than 1 Step 12: Add to a mixed number Step 13: Add two mixed numbers Step 14: Subtract fractions Step 15: Subtract from a mixed number Step 16: Subtract from a mixed number – breaking the whole Step 17: Subtract two mixed numbers</p>	<p>Step 11: Solve problems with multiplication and division</p> <p><b>Number: Fractions [2 weeks]</b> Step 1: Multiply a unit fraction by an integer Step 2: Multiply a non-unit fraction by an integer Step 3: Multiply a mixed number by an integer Step 4: Calculate a fraction of a quantity Step 5: Fraction of an amount Step 6: Find the whole Step 7: Use fractions as operators</p> <p><b>Number: Decimals and Percentages [1 week]</b> Step 1: Decimals up to 2 decimal places Step 2: Equivalent fractions and decimals (tenths) Step 3: Equivalent fractions and decimals (hundredths) Step 4: Equivalent fractions and decimals Step 5: Thousandths as fractions</p>	<p><b>Measurement: Perimeter and Area [2 weeks]</b> Step 1: Perimeter of rectangles Step 2: Perimeter of rectilinear shapes Step 3: Perimeter of polygons Step 4: Area of rectangles Step 5: Area of compound shapes Step 6: Estimate area</p> <p><b>Statistics [2 weeks]</b> Step 1: Draw line graphs Step 2: Read and interpret line graphs Step 3: Read and interpret tables Step 4: Two-way tables Step 5: Read and interpret timetables</p>	<p>Step 4: Translation with coordinates Step 5: Lines of symmetry Step 6: Reflection in horizontal and vertical lines</p> <p><b>Number: Decimals [1 week]</b> Step 1: Use known facts to add and subtract decimals within 1 Step 2: Complements to 1 Step 3: Add and subtract decimals across 1 Step 4: Add decimals with the same number of decimal places</p>	<p>Step 1: Understand negative numbers Step 2: Count through zero in 1s Step 3: Count through zero in multiples Step 4: Compare and order negative numbers Step 5: Find the difference</p> <p><b>Measurement: Converting Units [2 weeks]</b> Step 1: Kilograms and kilometres Step 2: Millimetres and millilitres Step 3: Convert units of length Step 4: Convert between metric and imperial units Step 5: Convert units of time Step 6: Calculate with timetables</p> <p><b>Measurement: Volume [1 week]</b> Step 1: Cubic centimetres Step 2: Compare volume Step 3: Estimate volume</p>
--	--	---	--	---	---

					Step 4: Estimate capacity
<b>YEAR 5 VOCABULARY</b>					
<b>Number: Place Value</b> Millions, thousands, hundreds, tens, ones, zero, greater than, less than, order, round, rounded, negative number, partition, digit, interval, sequence, linear sequence	<b>Number: Multiplication and Division</b> Multiply, groups of , lots of, times, divide, share, remainder, factor, multiple, product, squared, cubed, short multiplication, short division	<b>Number: Multiplication and Division</b> Multiply, groups of , lots of, times, divide, share, remainder, factor, multiple, product, short multiplication, long multiplication, short division, short multiplication, short division	<b>Number: Decimals and Percentages</b> Decimal place, decimal fraction, equivalent fraction, tenth, sharing, partitioning, exchanging, hundredth, thousandth, equal to, remainder, grouping, per cent (%) = out of 100, equivalent fraction, equivalent decimal, convert, compare, order, the whole	<b>Geometry: Shape</b> Angle, right angle, acute, obtuse, reflex, protractor, horizontal, vertical, parallel, perpendicular, polygon, regular, irregular, two-dimensional, three-dimensional, flat face, curved surface, edge, curved edge, vertex, apex, net, pentagonal prism, hexagonal prism, octagonal prism, octahedron	<b>Number: Decimals</b> Tenths, hundredths, decimal tenths, decimal hundredths, decimal equivalents, part-whole model, rounding, decimal point
<b>Number: Addition and Subtraction</b> Add, total, make, plus, sum, more, altogether, difference, subtract, less, minus, take away, column addition, column subtraction, estimate, inverse operation, number facts, complex					<b>Number: negative Numbers</b> Negative number, positive, zero, minus, below, number line, sequence
	<b>Number: Fractions</b> Numerator, denominator, unit fraction, non-unit fraction, whole, equivalent, mixed number, improper fraction, simplest form, multiple, common denominator, common numerator	<b>Number: Fractions</b> Numerator, denominator, unit fraction, non-unit fraction, whole, equivalent, mixed number, improper fraction, simplest form, multiple, common denominator, common numerator	<b>Measurement: Perimeter and Area</b> Metre kilometre, length, width, rectangle, rectilinear, dimensions, Squared units (m <sup>2</sup> )	<b>Geometry: Position and Direction</b> Coordinate, quadrant, x-axis, y-axis, reflection, mirror line, translation, horizontal, vertical	<b>Measurement: Volume</b> Cubed, area, cross-section, prism, cube, cuboid, face, length, height, width, depth
			<b>Statistics</b> Axis, continuous data, horizontal, data, interpret, label, line graph, maximum value,		

			minimum value, pattern, predict, relationship, represent, scale, survey, table, tally, timetable, vertical, x- axis, y-axis	<b>Number: Decimals</b> Tenths, hundredths, decimal tenths, decimal hundredths, decimal equivalents, part-whole model, rounding, decimal point	<b>Measurement:          Converting Units</b> Mass, gram, kilogram, capacity, volume, millilitre, centilitre, litre, millimetre, centimetre, kilometre
--	--	--	--	--	---