

# Curriculum Intent: MATHEMATICS (2024-25)

Year 6 MATHEMATICS					
ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
<p><b>Number: Place Value [2 weeks]</b>                      Step 1: Numbers to 1,000,000                      Step 2: Numbers to 10,000,000                      Step 3: Read and write numbers to 10,000,000                      Step 4: Powers of 10                      Step 5: Number line to 10,000,000                      Step 6: Compare and order any integers                      Step 7: Round any integer                      Step 8: Negative numbers</p> <p><b>Number: Addition, Subtraction, Multiplication and Division [4 weeks]</b>                      Step 1: Add and subtract integers                      Step 2: Common factors                      Step 3: Common multiples</p>	<p><b>Number: Addition, Subtraction, Multiplication and Division [1 week]</b>                      Step 15: Order of operations                      Step 16: Mental calculations and estimation                      Step 17: Reason from known facts</p> <p><b>Number: Fractions A [2 weeks]</b>                      Step 1: Equivalent fractions and simplifying fractions on a number line]                      Step 3: Compare and order (denominator)                      Step 4: Compare and order (numerator)                      Step 5: Add and subtract simple fractions                      Step 6: Add and subtract any two fractions</p>	<p><b>Number: Ratio [2 weeks]</b>                      Step 1: Add or multiply?                      Step 2: Use ratio language                      Step 3: Introduction to the ratio symbol                      Step 4: Ratio and fractions                      Step 5: Scale drawing                      Step 6: Use scale factors                      Step 7: Similar shapes                      Step 8: Ratio problems                      Step 9: Proportion problems                      Step 10: Recipes</p> <p><b>Number: Algebra [2 weeks]</b>                      Step 1: 1-step function machines                      Step 2: 2-step function machines                      Step 3: Form expressions                      Step 4: Substitution                      Step 5: Formulae                      Step 6: Form equations</p>	<p><b>Number: Fractions, Decimals and Percentages [2 weeks]</b>                      Step 1: Decimal and fraction equivalents                      Step 2: Fractions as division                      Step 3: Understand percentages                      Step 4: Fractions to percentages                      Step 5: Equivalent fractions, decimals and percentages                      Step 6: Order fractions, decimals and percentages                      Step 7: Percentage of an amount – one step                      Step 8: Percentage of an amount – multi step                      Step 9: Percentages – missing values</p> <p><b>Measurement: Perimeter, Area and Volume [2 weeks]</b></p>	<p><b>Geometry: Shape [3 weeks]</b>                      Step 1: Measure and classify angles                      Step 2: Calculate angles                      Step 3: Vertically opposite angles                      Step 4: Angles in a triangle                      Step 5: Angles in a triangle – special cases                      Step 6: Angles in a triangle – missing angles                      Step 7: Angles in a quadrilateral                      Step 8: Angles in a polygon                      Step 9: Circles                      Step 10: Draw shapes accurately                      Step 11: Nets of 3-D shapes</p> <p><b>Geometry: Position and Direction [1 week]</b>                      Step 1: The first quadrant</p>	<p><b>Consolidation and Themed Projects [6 weeks]</b></p>

<p>Step 4: Rules of divisibility  Step 5: Primes to 100  Step 6: Square and cube numbers  Step 7: Multiply up to a 4-digit number by a 2-digit number  Step 8: Solve problems with multiplication  Step 9: Short division  Step 10: Division using factors  Step 11: Introduction to long division  Step 12: Long division with remainders  Step 13: Solve problems with division  Step 14: Solve multi-step problems</p>	<p>Step 7: Add mixed numbers  Step 8: Subtract mixed numbers  Step 9: Multi-step problems</p> <p><b>Number: Fractions B [2 weeks]</b>  Step 1: Multiply fractions by integers  Step 2: Multiply fractions by fractions  Step 3: Divide a fraction by an integer  Step 4: Divide any fraction by an integer  Step 5: Mixed questions with fractions  Step 6: Fraction of an amount  Step 7: Fraction of an amount – find the whole</p> <p><b>Measurement: Converting Units [1 week]</b>  Step 1: Metric measures  Step 2: Convert metric measures  Step 3: Calculate with metric measures  Step 4: Miles and kilometres  Step 5: Imperial measures</p>	<p>Step 7: Solve 1-step equations  Step 8: Solve 2-step equations  Step 9: Find pairs of values  Step 10: Solve problems with two unknowns</p> <p><b>Number: Decimals [2 weeks]</b>  Step 1: Place value within 1  Step 2: Place value – integers and decimals  Step 3: Round decimals  Step 4: Add and subtract decimals  Step 5: Multiply by 10, 100 and 1,000  Step 6: Divide by 10, 100 and 1,000  Step 7: Multiply decimals by integers  Step 8: Divide decimals by integers  Step 9: Multiply and divide decimals in context</p>	<p>Step 1: Shapes – same area  Step 2: Area and perimeter  Step 3: Area of a triangle – counting squares  Step 4: Area of a right-angled triangle  Step 5: Area of any triangle  Step 6: Area of a parallelogram  Step 7: Volume – counting cubes  Step 8: Volume of a cuboid</p> <p><b>Statistics [2 weeks]</b>  Step 1: Line graphs  Step 2: Dual bar charts  Step 3: Read and interpret pie charts  Step 4: Pie charts with percentages  Step 5: Draw pie charts  Step 6: The mean</p>	<p>Step 2: Read and plot points in four quadrants  Step 3: Solve problems with coordinates  Step 4: Translations  Step 5: Reflections</p> <p><b>Consolidation and Assessment [2 weeks]</b></p>	
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YEAR 6 VOCABULARY

<p><b>Number: Place Value</b> Ten million, millions, thousands, hundreds, tens, ones, zero, greater than, less than, order, round, rounded, negative number, partition, digit, interval, sequence, linear sequence</p>	<p><b>Number: Fractions</b> Numerator, denominator, proper fraction, improper fraction, factor, highest common multiple, lowest common multiple, equivalents, common numerator, common denominator, decimal equivalent, simplify, simplest form, mixed number, whole number</p>	<p><b>Number: Ratio</b> Proportion, for every __, there are __, part, whole, scale factor, enlargement, similar shapes, length, width, perimeter</p>	<p><b>Number: Percentages</b> Per cent (%) = out of 100, discount, equivalent fraction, equivalent decimal, convert, compare, order, the whole</p>	<p><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, vertices, apex, radius, diameter, circumference</p>
<p><b>Number: Addition, Subtraction, Multiplication and Division</b> Add, total, make, plus, sum, more, altogether, difference, leave, subtract, difference between, less, minus, take away, mentally, orally, column addition, column subtraction, estimate, inverse operation, solve problem, number facts, complex, multiply, groups of , lots of, times, divide, share, remainder, factor, multiple, product, squared, cubed, prime, short multiplication, long multiplication, short division, brackets, BODMAS</p>		<p><b>Number: Algebra</b> Term to term rule, variable, unknown, expression, equation, formula, one-step equation, two-step equation, substitution, pair of unknowns, enumerate</p>	<p><b>Measurement: Perimeter, Area and Volume</b> Squared units (m<sup>2</sup>), Cubic units (cm<sup>3</sup>), cuboid, width, length, rectangle, rectilinear, parallelogram, perpendicular height</p>	<p><b>Geometry: Position and Direction</b> Translate, translation, reflect, reflection, up, down, right, left, coordinates, quadrant, x-axis, y-axis</p>
	<p><b>Measurement: Converting Units</b> Mass, gram, kilogram, capacity, volume, millilitre, litre, millimetre, centimetre, metre, kilometre, foot, inch,</p>	<p><b>Number: Decimals</b> Decimal place, decimal fraction, recurring decimal, equivalent fraction, tenth, sharing, partitioning, exchanging, rounding to</p>	<p><b>Statistics</b> Bar chart, pictogram, frequency table, tally chart, pie chart, discrete data, continuous data, line graph, sum,</p>	

	ounce, pound, stone, pint, gallon	3d.p., hundredth, thousandth, equal to, remainder, grouping	difference, comparison, interpret, mean average	
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