

Year 7 Curriculum Map

Term	Topics	Topics	Key Words
1	Algebra 1	Sequences and rules Finding missing terms Finding the general term (nth term) Functions and mappings Using letter symbols to represent functions	integer; sequence; term; rule; difference sequence; term; difference nth term; justify; generalisation function; input; output; combined function; inverse function function; mapping; expression; variable
	----- Number 1	Decimals Ordering decimals Directed numbers Estimates Column method for addition, subtraction and multiplication	----- complement of 100; counter-example decimal number; decimal place; digit; place value; tenth; hundredth; thousandth decimal fraction; less than; greater than; significant; order integer; plus; minus' multiply; divide; negative number Inverse operation; estimate; guess; approximate Difference; decimal point; decimal place; units; tenths; hundredths; number line Trial and improvement; reason; solution; solve; explore; investigate
	----- Geometry & Measures 1	Solving Problems Length, perimeter and area Areas of some 2-D shapes 3-shapes Surface area and volume of cuboids	----- Area; length; width; perimeter; millimetre. Centimetre; metre Base; eight; perpendicular height; parallelogram; trapezium Edge; face; isometric grid; net; vertex; cube; cuboid; cylinder; sphere; hemisphere; prism; pyramid; tetrahedron Cube; cuboid; surface area; volume; cubic millimetre; cubic centimetre; cubic metre; formula
2	Number 2	Fractions Fractions and decimals Adding and subtracting fractions Calculations and equivalences Solving problems	Numerator; denominator; mixed number; proper fraction; improper fraction; equivalent; cancel; simplest form Cancelling; factor; mixed number; decimal Denominator; numerator; common factor; fraction; common multiple Equivalence; decimal; fraction; percentage; denominator; factor Solve; problem; strategy; method
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	<p>Statistics 1</p> <p>-----</p> <p>Algebra 2</p>	<p>Mode, median and range The mean Statistical diagrams Probability Experimental probability</p> <p>-----</p> <p>Algebraic terms and expressions Rules of algebra Expanding and simplifying expressions Formulae Equations</p>	<p>Average; data; median; mode; range; modal class; statistic Average; frequency table; mean Bar chart; line graph; pie chart Chance; certain; event; outcome; fair; probability Biased; experimental probabilities; fair; theoretical probability</p> <p>-----</p> <p>Algebra; variable; substitute; term; expression; squared Operation; convention Term; like terms; expansion; simplify Formula Equation; solve</p>
3	<p>Geometry and Measures 2</p> <p>-----</p> <p>Statistics 2</p> <p>-----</p> <p>Number and Measures 3</p>	<p>Lines and angles Calculating angles Coordinates</p> <p>-----</p> <p>Using a tally chart Using the correct data Grouped frequencies Data collection</p> <p>-----</p> <p>Rounding The four operations BODMAS/ BIDMAS Long multiplication and long division Efficient calculations Calculating with measurements Solving problems</p>	<p>Acute; obtuse; reflex; diagonal; intersection; parallel; perpendicular; plane; alternate; corresponding Adjacent; angles at a point; interior angle; exterior angle; vertically opposite Axis; axes; coordinates; grid; origin; quadrant; x-axis; y-axis; x-coordinate; y-coordinate</p> <p>-----</p> <p>Data; statistics; tally; frequency; discrete; continuous Survey; data collection sheet Class; range; frequency table; grouped; frequency data Sample; survey; data capture; questionnaire; grouped frequencies</p> <p>-----</p> <p>Round; one decimal place (1d.p.); approximately; estimate Operation; inverse; sum; difference; product; factor; quotient; divisor; remainder Bracket; order; power Partitioning; long multiplication; long division; column method; place value Square; square root Equivalence; metric; litre Investigate; record; test; predict</p>
4	Algebra 3	<p>Square Numbers and Square roots Triangle numbers</p>	<p>Prime number; factor; square number; square root Triangle number; sequence</p>

		<p>From mappings to graphs More about graphs Questions about graphs</p> <hr/> <p>Measuring and drawing angles Constructions Solving geometrical problems</p> <hr/> <p>Percentages Ratio and Proportion Calculating ratios and proportion Solving problems</p> <hr/> <p>Solving 'brick-wall' problems Square and circle problems Triangle and circle problems</p>	<p>Coordinates; mapping; x-axis; y-axis Function; mapping; equation Intersection</p> <hr/> <p>Acute; obtuse; reflex Construct; protractor; ruler; bisect; bisector; mid-point; perpendicular bisector; construction line Quadrilateral; arrowhead; kite; delta; parallelogram; rhombus; trapezium; equilateral; isosceles; scalene; right- angled</p> <hr/> <p>Percentage; decimal; fraction Proportion; ratio; cancel; simplest form; highest common factor Ratio; cancel; lowest terms; simplest form Share; ratio; divide</p> <hr/> <p>Variable; solution Solution set Equation; solution</p>
	<p>Geometry and Measures 3</p> <hr/> <p>Number 4</p> <hr/> <p>Algebra 4</p>		
5	<p>Geometry and Measures 4</p> <hr/> <p>Statistics 3</p> <hr/> <p>Number 5</p>	<p>Line symmetry and rotational symmetry Reflections Rotations Translations Enlargements</p> <hr/> <p>Pie charts Comparing data Statistical surveys Comparing experimental and theoretical probabilities</p> <hr/> <p>Multiplying decimals</p>	<p>Line of symmetry; mirror line; symmetrical; rotate; rotational symmetry; order of symmetry; point of symmetry Mirror line; object; image; reflection; transformation Centre of rotation; object; image; rotation Translation; image; object Centre of enlargement; enlarge; image; object; scale factor</p> <hr/> <p>Pie chart; primary data; secondary data; sector Mean; median; range; mode; consistent; comparison; extreme value (anomaly); appropriate data; central value Average; data collection sheet; database; hypothesis; questionnaire; survey Event; equally likely; experimental probability; fair; unfair; outcome; theoretical probability</p> <hr/> <p>Decimal number; decimal place; digit; product; equivalent</p>

		Dividing decimals Using a calculator Fractions of quantities Percentages of quantities Solving problems	calculations Decimal point; division; equivalent calculations Calculator; memory key; recall; store; display; square root key; sign change key Fraction; numerator; denominator; divide; quantity Equivalent fraction; decimal; percentage; denominator; quantity Equivalent fraction; decimal; percentage; denominator
6	Algebra 5 ----- Geometry and Measures 3	Solving equations Formulae Dotty investigations Graphs from the real world Other types of problem ----- Polygons Tessellations Tessellations Constructing 3-D shapes Constructing 3-D shapes	Equation; expression; coefficient; linear Formula; substitution Investigation; perimeter; formula Linear relationship; conversion graph Expression; term; solution ----- Concave; convex; diagonal; regular; irregular; polygon; pentagon; hexagon; heptagon; octagon; nonagon; decagon Tessellation; pattern Tessellation; pattern Construct; net; 3-D shape; cube; cuboid; regular tetrahedron; square-based pyramid; triangular prism Construct; net; 3-D shape; cube; cuboid; regular tetrahedron; square-based pyramid; triangular prism