

Key Stage 3		Set 1	Set 2	Set 3 & 4
Learning Cycle 1	Term 1 - 2 (September - December)	<p>Data Collection and Number Skills Two-way tables and bar charts Averages and range Grouped data More graphs Pie charts Scatter graphs and correlation Factors, primes and multiples Using negative numbers Multiplying and dividing Squares and square roots More powers and roots Calculations</p> <p>Building on: Charts, plotting co-ordinates, collecting data, addition, subtraction, multiplication and division</p> <p>Assessment: PROGRESS CHECK 1</p>	<p>Analysing and Displaying Data and Number Skills Mode, median and range Displaying data Grouping data Averages and comparing data Line graphs and more bar charts Spreadsheets Mental maths Addition and subtraction Multiplication Division Finance: Time and money Negative numbers Factors, multiples and primes Square and triangle numbers</p> <p>Building on: Addition, subtraction, multiplication, division, tally charts, charts, number properties</p> <p>Assessment: PROGRESS CHECK 1</p>	<p>Calculating, Analysing and Displaying Data Adding Subtracting Multiplying Dividing Multiplying and dividing by 10, 100 and 1000 Using the four operations Positive and negative numbers Tables and pictograms Bar charts Grouped data Mode and modal class Range and median Mean</p> <p>Building on: Addition, subtraction, multiplication, division, tally charts, charts, number properties, powers of 10</p> <p>Assessment: PROGRESS CHECK 1</p>

		<p>Equations, Functions, Formulae and Fractions Simplifying algebraic expressions Writing algebraic expressions Using formulae Writing formulae Brackets and powers Factorising expressions Working with fractions Adding and subtracting fractions Fractions, decimals and percentages Multiplying and dividing fractions Working with mixed numbers</p> <p>Building on: BIDMAS, understanding of fractions, decimals and percentages, equivalent fractions</p> <p>Assessment: ASSESSMENT 1</p>	<p>Expressions, Functions, Formulae, Decimals and Measures Functions Simplifying expressions 1 Simplifying expressions 2 Writing expressions Substituting into formulae Writing formulae Decimals and rounding Length, mass and capacity Scales and Co-ordinates Working with decimals mentally Working with decimals Perimeter Area More units</p> <p>Building on: Inverse operations, basic algebra, metric units, measure</p> <p>Assessment: ASSESSMENT 1</p>	<p>Expressions, Functions, Formulae and Graphs Using functions Function machines Simplify expressions Writing expressions Using formulae Writing formulae Real-life graphs Co-ordinates Graphs of functions Scientific graphs</p> <p>Building on: Inverse operations, basic algebra, calculations, co-ordinates</p> <p>Assessment: ASSESSMENT 1</p>
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Key Stage 3		Set 1	Set 2	Set 3 & 4
Learning Cycle 2	Term 3 - 4 (January -March)	<p>Angles, Shapes and Decimals Angles and parallel lines Triangles Quadrilaterals Polygons Ordering decimals Rounding decimals Adding and subtracting decimals Multiplying decimals Dividing decimals Fractions, decimals and percentages Working with percentages</p> <p>Building on: Angle on a straight line and around a point, names and properties of 2D shapes, place value</p> <p>Assessment: PROGRESS CHECK 2</p>	<p>Fractions and 6 Probability Comparing fractions Simplifying fractions Working with fractions Fractions and decimals Understanding percentages Percentages of amounts The language of probability Calculating probability More probability calculations Experimental probability Expected outcomes</p> <p>Building on: Understanding of fractions, decimals and percentages, factors, multiples</p> <p>Assessment: PROGRESS CHECK 2</p>	<p>Factors, Multiples, Decimals and Measures Number rules and relationships Multiples Multiplication Division Solving problems Factors and primes Common factors and multiples Estimates and measures Decimal numbers Metric units Adding and subtracting decimals Rounding Multiplying and dividing decimals Calculating with money</p> <p>Building on: Number properties, place value, metric units, multiplication, division</p> <p>Assessment: PROGRESS CHECK 2</p>

		<p>Equations Solving one-step equations Solving two-step equations More complex equations Trial and improvement</p> <p>Building on: Inverse operations, understanding of algebraic expressions, substitution</p> <p>Assessment: ASSESSMENT 2</p>	<p>Ratio and Proportion Direct proportion Writing ratios Using ratios Scales and measures Proportions and fractions Proportions and percentages</p> <p>Building on: Fractions, metric measure, multiplication, division, percentages</p> <p>Assessment: ASSESSMENT 2</p>	<p>Angles and Lines Right angles and lines Measuring angles 1 Measuring angles 2 Drawing and estimating angles Putting angles together</p> <p>Building on: Angle properties of shapes, types of angle, using a protractor</p> <p>Assessment: ASSESSMENT 2</p>
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Key Stage 3		Set 1	Set 2	Set 3 & 4
Learning Cycle 3	Term 5 - 6 (April - July)	<p>Multiplicative Reasoning Metric and imperial units Writing ratios Sharing in a given ratio Proportion Proportional reasoning Using the unitary method</p> <p>Building on: Multiplying and dividing by powers of 10, fractions</p> <p>Assessment: no assessment</p>	<p>Lines and Angles Lines, angles and triangles Estimating, measuring and drawing angles Drawing triangles accurately Calculating angles Angles in a triangle Quadrilaterals</p> <p>Building on: Angle properties of shapes, types of angle, using a protractor</p> <p>Assessment: no assessment</p>	<p>Measuring and Shapes Shapes Symmetry in shapes More symmetry Regular polygons Perimeter Area</p> <p>Building on: Reflection, names of shapes, area and perimeter</p> <p>Assessment: no assessment</p>

	<p>Perimeter, Area, Volume, Sequences and Graphs Triangles, parallelograms and trapeziums Perimeter and area of compound shapes Properties of 3D solids Surface area Volume Measures of area and volume Sequences The nth term Pattern sequences Co-ordinates and line segments Graphs</p> <p>Building on: Properties of 2D and 3D shapes, names of shapes, writing expressions, drawing graphs</p> <p>Assessment: END OF YEAR EXAM</p>	<p>Sequences, Graphs and Transformations Sequences Pattern sequences Co-ordinates Extending sequences Straight-line graphs Position-to-term rules Congruency and enlargements Symmetry Reflection Rotation Translations and combined transformations</p> <p>Building on: Substitution, properties of shapes, reflection</p> <p>Assessment: END OF YEAR EXAM</p>	<p>Fractions, Decimals, Percentages and Transformations Comparing fractions Equivalent fractions Calculating with fractions Adding and subtracting fractions Introducing percentages Finding percentages Reflection Translation Rotation Congruency Quadrilaterals</p> <p>Building on: Multiplication, division, factors, multiples, percentages, reflection</p> <p>Assessment: END OF YEAR EXAM</p>
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