

Maths UKS 2		
Autumn	<p style="text-align: center;">Year 5</p> <p>Block 1 - Place Value</p> <ul style="list-style-type: none"> • Numbers to 10,000 • Roman numerals • Rounding to 10, 100, 1,000 • Numbers to 100,000 • Compare and order numbers to 100,000 • Round numbers within 100,000 • Numbers to a million • Counting in 10s, 100s, 1,000s, 10,000s and 100,000s • Compare and order numbers to one million • Round numbers to one million • Negative numbers <p>Block 2 – Addition and Subtraction</p> <ul style="list-style-type: none"> • Add whole numbers with more than 4 digits (column method) • Subtract whole numbers with more than 4 digits (column method) • Round to estimate and approximate • Inverse operations (addition and subtraction) • Multi-step addition and subtraction problems 	<p style="text-align: center;">Year 6</p> <p>Block 1 - Place Value</p> <ul style="list-style-type: none"> • Numbers to 10 million • Compare and order any numbers • Round any number • Negative numbers <p>Block 2 – Four operations</p> <ul style="list-style-type: none"> • Add and subtract integers • Multiply up to a 4-digit number by a 2-digit number • Short division • Division using factors • Long division (1) • Long division (2) • Long division (3) • Long division (4) • Common factors • Common multiples • Primes to 100 • Squares and cubes • Order of operations

	<p>Block 3 – Statistics</p> <ul style="list-style-type: none"> • Read and interpret line graphs • Draw line graphs • Use line graphs to solve problems • Read and interpret tables • Two-way tables • Timetables <p>Block 4 – Multiplication & Division</p> <ul style="list-style-type: none"> • Multiples • Factors • Common factors • Prime numbers • Square numbers • Cube numbers • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiples of 10, 100 and 1,000 <p>Block 5 – Perimeter & Area</p> <ul style="list-style-type: none"> • Measure perimeter 	<ul style="list-style-type: none"> • Mental calculations and estimation • Reason from known facts <p>Block 3 – Fractions</p> <ul style="list-style-type: none"> • Simplify fractions • Fractions on a number line • Compare and order (denominator) • Compare and order (numerator) • Add and subtract fractions (1) • Add and subtract fractions (2) • Add fractions • Subtract fractions • Mixed addition and subtraction • Multiply fractions by integers • Multiply fractions by fractions • Divide fractions by integers (1) • Divide fractions by integers (2) • Four rules with fractions • Fraction of an amount • Fraction of an amount – find the whole <p>Block 4 – Position & Direction</p> <ul style="list-style-type: none"> • The first quadrant • Four quadrants • Translations • Reflections
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	<ul style="list-style-type: none"> • Calculate perimeter • Area of rectangles • Area of compound shapes • Area of irregular shapes 	
Spring	<p>Block 1 – Multiplication and Division</p> <ul style="list-style-type: none"> • Multiply 4-digits by 1-digit • Multiply 2-digits (area model) • Multiply 2-digits by 2-digits • Multiply 3-digits by 2-digits • Multiply 4-digits by 2-digits • Divide 4-digits by 1-digit • Divide with remainders <p>Block 2 – Fractions</p> <ul style="list-style-type: none"> • Equivalent fractions • Improper fractions to mixed numbers • Mixed numbers to improper fractions • Number sequences • Compare and order fractions less than 1 • Compare and order fractions greater than 1 • Add and subtract fractions • Add fractions within 1 • Add 3 or more fractions • Add fractions • Add mixed numbers • Subtract fractions • Subtract mixed numbers • Subtraction – breaking the whole • Subtract 2 mixed numbers • Multiply unit fractions by an integer • Multiply non-unit fractions by an integer • Multiply mixed numbers by integers • Fraction of an amount 	<p>Block 1 – Decimals</p> <ul style="list-style-type: none"> • Three decimal places • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply decimals by integers • Divide decimals by integers • Division to solve problems • Decimals as fractions • Fractions to decimals (1) • Fractions to decimals (2) <p>Block 2 – Percentages</p> <ul style="list-style-type: none"> • Fractions to percentages • Equivalent FDP • Order FDP • Percentage of an amount (1) • Percentage of an amount (2) • Percentages – missing values

- Using fractions as operators

Block 3 – Decimals & Percentages

- Decimals up to 2 d.p.
- Decimals as fractions (1)
- Decimals as fractions (2)
- Understand thousandths
- Thousandths as decimals
- Order and compare decimals
- Understand percentages
- Percentages as fractions and decimals equivalent F.D.P

Block 3 – Algebra

- Find a rule – one step
- Find a rule – two step
- Forming expressions
- Substitution
- Formulae
- Forming equations
- Solve simple one-step equations
- Solve two-step equations
- Find pairs of values (1)
- Find pairs of values (2)

Block 4 – Converting Units

- Metric measures
- Convert metric measures
- Calculate with metric measures
- Miles and kilometres
- Imperial measures

Block 5 – Area, Perimeter & Volume

- Shapes – same area
- Area and perimeter
- Area of a triangle (1)
- Area of a triangle (2)
- Area of a triangle (3)
- Area of a parallelogram
- Volume – counting cubes
- Volume of a cuboid

Block 6 – Ratio

- Use ratio language

		<ul style="list-style-type: none"> • Ratio and fractions • Introducing the ratio symbol • Calculating ratio • Using scale factors • Calculating scale factors • Ratio and proportion problems
Summer	<p>Block 1 – Decimals</p> <ul style="list-style-type: none"> • Adding decimals within 1 • Subtracting decimals within 1 • Compliments to 1 • Adding decimals – crossing the whole • Adding decimals with the same number of decimal places • Subtracting decimals with the same number of decimal places • Adding decimals with a different number of decimal places • Subtracting decimals with a different number of decimal places • Adding and subtracting wholes and decimals • Decimal sequences • Multiplying decimals by 10, 100 and 1,000 • Dividing decimals by 10, 100 and 1000 <p>Block 2 – Properties of Shape</p> <ul style="list-style-type: none"> • Measuring angles in degrees • Measuring with a protractor (1) • Measuring with a protractor (2) • Drawing lines and angles accurately • Calculating angles on a straight line • Calculating angles around a point • Calculating lengths and angles in shapes • Regular and irregular angles in shapes • Regular and irregular polygons • Reasoning about 3-D shapes <p>Block 3 – Position & Direction</p>	<p>Block 1 – Properties of Shape</p> <ul style="list-style-type: none"> • Measure with a protractor • Introduce angles • Calculate angles • Vertically opposite angles • Angles in a triangle • Angles in a triangle – special cases • Angles in a triangle – missing angles • Angles in special quadrilaterals • Angles in regular polygons • Draw shapes accurately • Draw nets of 3-D shapes <p>Block 2 – Statistics</p> <ul style="list-style-type: none"> • Read and interpret line graphs • Draw line graphs • Use line graphs to solve problems • Circles • Read and interpret pie charts • Pie charts with percentages • Draw pie charts • The mean

	<ul style="list-style-type: none">• Position in the first quadrant• Reflection• Reflection with coordinates• Translation• Translation with coordinates <p>Block 4 – Converting Units</p> <ul style="list-style-type: none">• Kilograms and kilometres• Millimetres and millilitres• Metric units• Imperial units• Converting units of time• Timetables <p>Block 5 – Volume</p> <ul style="list-style-type: none">• What is volume• Compare volume• Estimate volume• Estimate capacity	
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