

**MATHS SCHEME OF WORK**

In order to ensure appropriate coverage, the focus rotas for each class or group should refer to the following years of the **Maths National Curriculum**.

Pupils in Year 9 will follow AQA units in Spring and Summer Term. Pupils in Year 10 & 11 will follow AQA. In the Spring and Summer term, Year 11 will follow one of two pathways: either Entry Level 1/2 Functional Maths; or Functional Maths skills lessons.

Class or group	National Curriculum Year
Class 1 (SWA/AHE)	Rec/ELG/Year 1
Year 3 (ABR)	Rec/ELG/Year 1
Year 4 (GSA)	Year 1
Year 5 (LAL)	Year 2
Year 6 (MBVK)	Year 3
Year 7 (IBO)	Year 4
Year 8 (SRE)	Year 4
Year 8 (JEL)	Year 5/6
Year 9 (LBA)	Year 6/AQA
Year 10 (JTU)	AQA
Year 11 (NPR)	AQA

The Scheme of Work is for guidance only. Work should be personalised for each child based on their assessed achievement in PIVATS 5, selecting the most suitable objectives for them within the focus area. These objectives should be clearly identifiable in your planning. An appropriate objective from Using & Applying should also be planned within each focus area.

Reference should be made to the School Calculation Policy for appropriate calculation strategies.

A child can be marked as having achieved an objective if they have successfully completed work relating to it independently on at least 3 separate occasions. Some form of evidence should be available to show this – this can be written, photographic, video, or a record of verbal evidence.

Maths work will be moderated once each term – Autumn Term: U&A – Spring Term: Number – Summer Term: Shape, Space and Measure

Autumn	<b>Number/Counting/Sequences</b> <u>(3 weeks)</u> Counting reliably with numbers from 1-20. Odd and even numbers.	<b>Place Value</b> <u>(3 weeks)</u> 1 more or 1 less than a given number (to 20). Order numbers 1-20.	<b>Measure Mass/weight, Capacity/volume</b> <u>(3 weeks)</u> Use everyday language to describe weight and capacity. Compare quantities and objects – more/less. Sand and water.  <b>Pumpkin Lanterns – Maths Day</b>	<b>Addition and Subtraction</b> <u>(3 weeks)</u> Add and subtract/take away two single-digit numbers. Count on or back to find the answer. Start to record number sentences. Bonds to 10 (Part-part-whole).	<b>Geometry – Properties of Shapes (Lesson Study)</b> <u>(3 weeks)</u> Exploring the characteristics of everyday objects and shapes, using mathematical language to describe them.
Spring	<b>Number/Counting/Sequences</b> <u>(3 weeks)</u> Counting reliably with numbers from 1-20. Odd and even. Introduce 0 (zero).	<b>Measure Time</b> <u>(3 weeks)</u> Sequencing familiar events in chronological order. Days of the week, weeks, months, years.	<b>Multiplication and Division</b> <u>(2 weeks)</u> Doubling, halving and sharing. Solve problems.	<b>Geometry – Properties of Shapes</b> <u>(2 weeks)</u> Exploring the characteristics of everyday objects and shapes, using mathematical language to describe them. Names of common 2D and 3D shapes.	<b>Measure Money (Number objectives in PIVATS)</b> <u>(3 weeks)</u> Recognise and know the value of some different denominations of coins and notes.
Summer	<b>Place Value</b> <u>(2 weeks)</u> 1 more or 1 less than a given number (to 20). Order numbers 1-20.	<b>Addition and Subtraction</b> <u>(2 weeks)</u> Add and subtract two single-digit numbers. Count on or back to find the answer. Start to record number sentences. Bonds to 10 (Part-part-whole).	<b>Multiplication and Division</b> <u>(2 weeks)</u> Doubling, halving and sharing. Solve problems.	<b>Measure Length and Height</b> <u>(3 weeks)</u> Use everyday language to describe length and height. To compare quantities and objects.  <b>SPORTS DAY PRACTICE</b>	<b>* Geometry – Position, direction and motion</b> <u>(2 weeks)</u> Recognise, create and describe patterns.

\* Taught by new teacher during 2 week transition at the end of the year.

**CLASS 2 – Y3 (ABR)**

Autumn	<b>Number/Counting/Sequences</b> <u>(3 weeks)</u> Counting reliably with numbers from 1-20. Odd and even numbers.	<b>Place Value</b> <u>(3 weeks)</u> 1 more or 1 less than a given number (to 20). Order numbers 1-20.	<b>Measure Mass/weight, Capacity/volume</b> <u>(3 weeks)</u> Use everyday language to describe weight and capacity. Compare quantities and objects – more/less. Sand and water.  <b>Pumpkin Lanterns – Maths Day</b>	<b>Addition and Subtraction</b> <u>(3 weeks)</u> Add and subtract/take away two single-digit numbers. Count on or back to find the answer. Start to record number sentences. Bonds to 10 (Part-part-whole).	<b>Geometry – Properties of Shapes (Lesson Study)</b> <u>(3 weeks)</u> Exploring the characteristics of everyday objects and shapes, using mathematical language to describe them.
Spring	<b>Measure Time</b> <u>(3 weeks)</u> Sequencing familiar events in chronological order. Days of the week, weeks, months, years.	<b>Number/Counting/Sequences</b> <u>(3 weeks)</u> Counting reliably with numbers from 1-20. Odd and even. Introduce 0 (zero).	<b>Geometry – Properties of Shapes</b> <u>(2 weeks)</u> Exploring the characteristics of everyday objects and shapes, using mathematical language to describe them. Names of common 2D and 3D shapes.	<b>Measure Money (Number objectives in PIVATS)</b> <u>(3 weeks)</u> Recognise and know the value of some different denominations of coins and notes.	<b>Multiplication and Division</b> <u>(2 weeks)</u> Doubling, halving and sharing. Solve problems.
Summer	<b>Place Value</b> <u>(2 weeks)</u> 1 more or 1 less than a given number (to 20). Order numbers 1-20.	<b>Addition and Subtraction</b> <u>(2 weeks)</u> Add and subtract two single-digit numbers. Count on or back to find the answer. Start to record number sentences. Bonds to 10 (Part-part-whole).	<b>Measure Length and Height</b> <u>(3 weeks)</u> Use everyday language to describe length and height. To compare quantities and objects.  <b>SPORTS DAY PRACTICE</b>	<b>Multiplication and Division</b> <u>(2 weeks)</u> Doubling, halving and sharing. Solve problems.	<b>* Geometry – Position, direction and motion</b> <u>(2 weeks)</u> Recognise, create and describe patterns.

\* Taught by new teacher during 2 week transition at the end of the year.

**CLASS 3 – Y4 (GSA)**

<div>Autumn</div>	<p><b>Number/Counting/Sequences</b> <u>(3 weeks)</u></p> <p>Counting in 1s to, from and across 100 (forwards and backwards) starting at any number. Counting in multiples of 2, 5 and 10. Identify 1 more and 1 less of a given number.</p>	<p><b>Place Value</b> <u>(3 weeks)</u></p> <p>Identify and represent numbers using cubes, dienes etc, and number lines. Use the language of equal to, more than, less than, fewer, most, least. Read and write numbers to 100 in numerals. Read and write numbers to 20 in words.</p>	<p><b>Measure Mass/weight, Capacity/volume</b> <u>(3 weeks)</u></p> <p>Compare, describe and solve practical problems for mass/weight and capacity/volume. Measure and begin to record mass/weight and capacity/volume. (Non-standard units).</p> <p><b>Pumpkin Lanterns – Maths Day</b></p>	<p><b>Addition and Subtraction</b> <u>(3 weeks)</u></p> <p>Read, write and work out sums involving + - =. Bonds to 20 (Part-part-whole). 1-step addition and subtraction problems, including missing number problems. Add and subtract 1-digit and 2-digit numbers to 20.</p>	<p><b>Geometry – Properties of Shapes (Lesson Study)</b> <u>(3 weeks)</u></p> <p>Recognise and name common 2D and 3D shapes.</p>
	<p><b>Number/Counting/Sequences</b> <u>(3 weeks)</u></p> <p>Counting in 1s to, from and across 100, forwards and backwards, beginning with any given number. Counting in multiples of 2, 5 and 10. Identify 1 more and 1 less of a given number.</p>	<p><b>Measure Time</b> <u>(3 weeks)</u></p> <p>Measure and begin to record time (hrs, mins, secs). Sequencing familiar events in chronological order. Days of the week, weeks, months, years. Tell the time to the hour and half past. Compare, describe and solve practical problems for time.</p>	<p><b>Multiplication and Division</b> <u>(2 weeks)</u></p> <p>Doubling, halving and sharing. Solve 1-step multiplication and division problems, appropriate to the pupil's ability, using concrete objects, pictorial representations and arrays (with the support of the teacher).</p>	<p><b>Fractions</b> <u>(2 weeks)</u></p> <p>Recognise, find and name a half as one of two equal parts of an object, shape or quantity. Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.</p>	<p><b>Measure Money (Number objectives in PIVATS)</b> <u>(3 weeks)</u></p> <p>Recognise and know the value of different denominations of coins and notes.</p>

Summer	<b>Place Value</b> <u>(2 weeks)</u> Identify and represent numbers using cubes, dienes etc, and number lines. Use the language of equal to, more than, less than, fewer, most, least. Read and write numbers to 100 in numerals. Read and write numbers to 20 in words.	<b>Addition and Subtraction</b> <u>(2 weeks)</u> Read, write and work out sums involving + - =. Bonds to 20 (Part-part-whole). 1-step addition and subtraction problems, including missing number problems. Add and subtract 1-digit and 2-digit numbers to 20.	<b>Multiplication and Division</b> <u>(2 weeks)</u> Doubling, halving and sharing. Solve 1-step multiplication and division problems, appropriate to the pupil's ability, using concrete objects, pictorial representations and arrays (with the support of the teacher).	<b>Measure Length and Height</b> <u>(3 weeks)</u> Compare, describe and solve practical problems for length and height. Measure and begin to record length and height. (Non-standard units).	<b>* Geometry – Position, direction and motion</b> <u>(2 weeks)</u> Describe half, quarter and three quarter turns.
				<b>SPORTS DAY PRACTICE</b>	

\* Taught by new teacher during 2 week transition at the end of the year.

**CLASS 4 – Y5 (MBVK)**

Autumn	<b>Number/Counting/Sequences</b> <u>(2 weeks)</u> Counting forwards and backwards in steps of 2, 3, 4 and 5 from 0. Counting forwards and backwards in tens from any number.	<b>Place Value</b> <u>(2 weeks)</u> Identify, represent and estimate numbers, including using a number line. Read and write numbers to at least 100 in numerals and words. Compare and order numbers to 100 using < > and =. Recognise the place value of each digit in a 2-digit number. Use place value and number facts to solve problems.	<b>Measure Mass/weight, Capacity/volume</b> <u>(3 weeks)</u> Choose and use appropriate standard units to estimate and measure mass/weight (kg/g) and capacity/volume (l/ml). Measure and begin to record mass/weight (kg/g) and capacity/volume (l/ml).  <b>Pumpkin Lanterns – Maths Day</b>	<b>Addition and Subtraction</b> <u>(3 weeks)</u> Recall and use number facts to 20. Derive and use number facts to 100. Adding and subtraction 2-digit and ones, 2-digit and tens, 2-digit and 2-digit and adding three 1-digit numbers. The commutative nature of addition but not subtraction. Recognising addition and subtraction as the inverse of each other. Word problems.	<b>Statistics</b> <u>(2 weeks)</u> Tallies and frequency tables. Create simple pictograms, tally charts, block diagrams. Ask and answer questions about them.	<b>Geometry – Properties of Shapes (Lesson Study)</b> <u>(3 weeks)</u> Identify and describe the properties of: 2D shapes – sides, corners, vertical symmetry; 3D shapes – edges, vertices, faces. Identify the 2D shapes on the faces of 3D shapes. Compare and sort common 2D and 3D shapes.
	<b>Number/Counting/Sequences</b> <u>(3 weeks)</u> Counting forwards and backwards in steps of 2, 3, 4 and 5 from 0. Counting forwards and backwards in tens from any number.	<b>Measure Money (Number objectives in PIVATS)</b> <u>(3 weeks)</u> Recognise and use symbols for £ and p. Combine amounts to make a given value. Find different combinations of coins that make the same amount of money. Practical addition and subtraction problems, including giving change.	<b>Multiplication and Division</b> <u>(2 weeks)</u> Recall and use multiplication and division facts for 2, 5, 10 times tables. Calculate multiplication and division sums using $\times$ $\div$ and =. The commutative nature of multiplication but not division. Word problems.	<b>Measure Time</b> <u>(3 weeks)</u> Compare and sequence intervals of time. Tell the time to quarter past/quarter to. Tell and write the time to 5 minute intervals.	<b>Fractions</b> <u>(2 weeks)</u> Recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ , $\frac{3}{4}$ of a length, shape, set of objects or quantity. Write simple fractions, e.g. $\frac{1}{2}$ of 6 = 3. Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ .	

Summer	<b>Place Value</b> <u>(2 weeks)</u> Identify, represent and estimate numbers, including using a number line. Read and write numbers to at least 100 in numerals and words. Compare and order numbers to 100 using < > and =. Recognise the place value of each digit in a 2-digit number. Use place value and number facts to solve problems.	<b>Addition and Subtraction</b> <u>(2 weeks)</u> Recall and use number facts to 20. Derive and use number facts to 100. Adding and subtraction 2-digit and ones, 2-digit and tens, 2-digit and 2-digit and adding three 1-digit numbers. The commutative nature of addition but not subtraction. Recognising addition and subtraction as the inverse of each other. Word problems.	<b>Multiplication and Division</b> <u>(2 weeks)</u> Recall and use multiplication and division facts for 2, 5, 10 times tables. Calculate multiplication and division sums using $\times \div$ and =. The commutative nature of multiplication but not division. Word problems.	<b>Measure Length and Height</b> <u>(3 weeks)</u> Choose and use appropriate standard units to estimate and measure length and height (m/cm). Measure and begin to record length and height (m/cm).	<b>* Geometry – Position, direction and motion</b> <u>(2 weeks)</u> Order and arrange combinations of mathematical objects in sequences – repeating patterns. Describe movement and position – moving in a straight line, rotation in terms of right angles for quarter, half and three-quarter turns. Clockwise and anti-clockwise.
				<b>SPORTS DAY PRACTICE</b>	

\* Taught by new teacher during 2 week transition at the end of the year.

**CLASS 5 - Y6 (LAL/CLA)**

Autumn	<b>Number/Counting/Sequences</b> <u>(2 weeks)</u> Count from 0 in multiples of 4, 8, 50 and 100. Find 10 or 100 more or less than a given number.	<b>Place Value</b> <u>(2 weeks)</u> Identify, represent and estimate numbers, including using a number line and manipulatives. Read and write numbers to at least 1000 in numerals and words. Compare and order numbers to 1000. Recognise the place value of HT and U.	<b>Measure Mass/weight, Capacity/volume</b> <u>(3 weeks)</u> Measure, compare, add and subtract masses (kg/g) and volumes/capacity (l/ml).  <b>Pumpkin Lanterns – Maths Day</b>	<b>Addition and Subtraction</b> <u>(3 weeks)</u> Add and subtract numbers mentally, including: - 3 digit no and 1s. - 3 digit no and 10s. - 3 digit no and 100s. Add and subtract numbers with HTU using formal written methods. Estimate an answer and use the inverse to check. Solve problems.	<b>Statistics</b> <u>(2 weeks)</u> Tallies and frequency tables. Create bar charts, pictograms and tables. Answer questions and solve 1-step and 2-step problems, such as 'How many more/fewer?'	<b>Geometry – Properties of Shapes (Lesson Study)</b> <u>(3 weeks)</u> Draw 2D shapes and make models of 3D shapes. Horizontal, vertical, perpendicular and parallel lines.
	<b>Number/Counting/Sequences</b> <u>(3 weeks)</u> Count from 0 in multiples of 4, 8, 50 and 100. Find 10 or 100 more or less than a given number.	<b>Measure Time</b> <u>(3 weeks)</u> Tell the time in 12 hour and 24 hour (and Roman Numerals). Read the time to the nearest minute. Use the terms o'clock, am/pm, morning, afternoon, noon and midnight. Know the number of seconds in a minute, days each month, year and leap year. Work out the difference in time between events.	<b>Multiplication and Division</b> <u>(2 weeks)</u> Recall and use the multiplication and division facts for 3, 4 and 8 tables. Multiplication and division sums for tables the children know, including 2-digit x 1-digit, using mental and progressing to formal written methods. Solve problems.	<b>Fractions</b> <u>(2 weeks)</u> Recognise and use fractions as numbers. Use diagrams to show equivalent fractions. Add and subtract fractions with the same denominator. Introduce mixed numbers.	<b>Measure Money (Number objectives in PIVATS)</b> <u>(3 weeks)</u> Add and subtract amounts of money to give change, using both £ and p in practical contexts.	

Autumn

Spring



Summer	<b>Place Value</b> <u>(2 weeks)</u> Identify, represent and estimate numbers, including using a number line and manipulatives. Read and write numbers to at least 1000 in numerals and words. Compare and order numbers to 1000. Recognise the place value of HT and U.	<b>Addition and Subtraction</b> <u>(2 weeks)</u> Add and subtract numbers mentally, including: - 3 digit no and 1s. - 3 digit no and 10s. - 3 digit no and 100s. Add and subtract numbers with HTU using formal written methods. Estimate an answer and use the inverse to check. Solve problems.	<b>Multiplication and Division</b> <u>(2 weeks)</u> Recall and use the multiplication and division facts for 3, 4 and 8 tables. Multiplication and division sums for tables the children know, including 2-digit x 1-digit, using mental and progressing to formal written methods. Solve problems.	<b>Measure Length and Height</b> <u>(3 weeks)</u> Measure, compare, add and subtract lengths and heights (m/cm/mm). Measure the perimeter of 2D shapes.	<b>* Geometry – Position, direction and motion</b> <u>(2 weeks)</u> Recognise angles and right angles – and that two make a half term etc. Identify angles bigger or smaller than right angles. (Taken from Properties of Shapes).
	<b>SPORTS DAY PRACTICE</b>				

\* Taught by new teacher during 2 week transition at the end of the year.

**YEAR 7 (IBO)**

Autumn	<b>Number/Counting/Sequences</b> <u>(2 weeks)</u> Count backwards through 0 to include negative numbers. Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less of a number.	<b>Place Value</b> <u>(2 weeks)</u> Identify, represent and estimate numbers, including using a number line and manipulatives. Compare and order numbers beyond 1000. Recognise the place value in ThHTU. Round numbers to the nearest 10, 100, 1000.	<b>Addition and Subtraction</b> <u>(3 weeks)</u> Add and subtract numbers with up to 4 digits using formal written methods. Two-step problems involving addition and subtraction. Estimate and use inverse operations to check.	<b>Multiplication and Division</b> <u>(3 weeks)</u> Recall multiplication & division facts to 12x12. Recognise and use factor pairs & commutativity in mental maths. Multiplying and dividing 1- and 2-digit numbers by 10 and 100 (Fractions). Multiply 2-digit and 3-digit numbers by 1-digit numbers using formal written methods.	<b>Geometry – Properties of Shapes</b> <u>(3 weeks)</u> Compare and classify (sort) geometric shapes based on their size and properties. Identify lines of symmetry in different orientations. Complete a symmetrical figure or pattern. Acute and obtuse angles. Ordering angles by size.	<b>Fractions</b> <u>(2 weeks)</u> Diagrams of common equivalent fractions. Decimal equivalents of tenths, hundredths, $\frac{1}{4}$ , $\frac{1}{2}$ , $\frac{3}{4}$ . Counting up and down in hundredths. Mixed numbers. Adding fractions with the same denominator.
	<b>Number/Counting/Sequences</b> <u>(2 weeks)</u> Count backwards through 0 to include negative numbers. Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less of a number. Comparing and ordering numbers with up to 2 decimal places (fractions).	<b>Measure Mass/weight, Capacity/volume</b> <u>(3 weeks)</u> Converting between different units of measure (g/kg or ml/l). Estimating and measuring.  <b>Great Milton Bake Off – Maths Day</b>	<b>Measure Time</b> <u>(3 weeks)</u> Read, write and convert time between analogue and digital 24 hour clocks. Solve problems converting from hours to minutes, minutes to seconds, years to months, weeks to days. Introduce timetables.	<b>Measure Money (Number objectives in PIVATS)</b> <u>(3 weeks)</u> Add, subtract, multiply and divide amounts of money to give change, using both £ and p in practical contexts.	<b>Addition and Subtraction</b> <u>(2 weeks)</u> Add and subtract numbers with up to 4 digits using formal written methods. Two-step problems involving addition and subtraction. Estimate and use inverse operations to check.	

Autumn

Spring

Summer	<b>Measure Length and Height</b> <u>(3 weeks)</u> Converting between different units of measure (mm/cm/m). Estimating and measuring. Measure and calculate the perimeter of rectangles. Measure and calculate the area of rectangles by counting squares.	<b>Place Value</b> <u>(2 weeks)</u> Identify, represent and estimate numbers, including using a number line and manipulatives. Compare and order numbers beyond 1000. Recognise the place value in ThHTU. Round numbers to the nearest 10, 100, 1000.	<b>Multiplication and Division</b> <u>(2 weeks)</u> Recall multiplication & division facts to 12x12. Recognise and use factor pairs & commutativity in mental maths. Multiply 2-digit and 3-digit numbers by 1-digit numbers using formal written methods.	<b>Statistics</b> <u>(2 weeks)</u> Tallies and frequency tables. Interpret and present data in bar graphs and line graphs. Compare, sum and difference problems based on them.	<b>* Geometry – Position, direction and motion</b> <u>(2 weeks)</u> Coordinates in the first quadrant – plot points and draw shapes. Describe movements between positions as transitions.
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\* Taught by new teacher during 2 week transition at the end of the year.

**YEAR 8 (SRE & JEL)**

Autumn	<b>Number/Counting/Sequences</b> <u>(2 weeks)</u> Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. Count forwards and backwards with positive and negative numbers, including through zero.	<b>Place Value</b> <u>(2 weeks)</u> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit. Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000. Round decimals with 2 decimal places to the nearest whole number/one decimal place (Fractions).	<b>Addition and Subtraction</b> <u>(3 weeks)</u> Add and subtract whole numbers with more than 4-digits using formal written methods. Add and subtract increasingly large numbers, mentally. Multi-step problems involving addition and subtraction. Rounding to check answers to calculations.	<b>Geometry – Properties of Shapes</b> <u>(3 weeks)</u> Know the difference between regular and irregular polygons. Identify 3D shapes from 2D representations. Use the properties of rectangles to work out missing lengths and angles. Estimate and measure angles in degrees. Work out angles on a point on a straight line (total 180°) and within a whole turn (360°).	<b>Multiplication and Division</b> <u>(3 weeks)</u> Multiples and factors. Use long multiplication to multiply up to 4-digit numbers by 1- or 2-digit numbers. Use short division to divide up to 4-digit numbers by a 1-digit number. Problems involving remainders. Square numbers and cube numbers. Prime numbers.	<b>Fractions</b> <u>(2 weeks)</u> Identify, name and write equivalent fractions. Read and write decimal numbers as fractions. Compare and order fractions, including fractions >1. Use common factors to simplify fractions. Add and subtract fractions with the same denominator. Multiply fractions. Percentages.
	<b>Number/Counting/Sequences</b> <u>(2 weeks)</u> Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. Count forwards and backwards with positive and negative numbers, including through zero.	<b>Measure Mass/weight, Capacity/volume</b> <u>(3 weeks)</u> Convert between g/kg, ml/l. Estimate and measure weight and capacity/volume. Approximate equivalences between metric and imperial units.  <b>Great Milton Bake Off – Maths Day</b>	<b>Measure Money (Number objectives in PIVATS)</b> <u>(3 weeks)</u> Add, subtract, multiply and divide amounts of money to give change, using both £ and p in practical contexts.	<b>Measure Time</b> <u>(3 weeks)</u> Solve problems involving converting between units of time. Reading and interpreting timetables (Statistics).	<b>Addition and Subtraction</b> <u>(2 weeks)</u> Add and subtract whole numbers with more than 4-digits using formal written methods. Add and subtract increasingly large numbers, mentally. Multi-step problems involving addition and subtraction. Rounding to check answers to calculations.	

Autumn

Spring

Summer	<p><b>Place Value</b> <u>(2 weeks)</u></p> <p>Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.</p> <p>Round decimals with 2 decimal places to the nearest whole number/one decimal place (Fractions). Ordering numbers with up to three decimals places (Fractions).</p>	<p><b>Multiplication and Division</b> <u>(2 weeks)</u></p> <p>Multiples and factors. Use long multiplication to multiply up to 4-digit numbers by 1- or 2-digit numbers. Use short division to divide up to 4-digit numbers by a 1-digit number. Problems involving remainders. Square numbers and cube numbers. Prime numbers.</p>	<p><b>Measure Length and Height</b> <u>(3 weeks)</u></p> <p>Convert between km/m/cm/mm. Measure and calculate the perimeter of composite rectilinear shapes in cm and m. Work out the area of rectangles using standard units (cm<sub>2</sub> and m<sub>2</sub>). Approximate equivalences between metric and imperial units.</p>	<p><b>Statistics</b> <u>(2 weeks)</u></p> <p>Complete, read and interpret information in tables, including timetables. Compare, sum and difference problems based on them. Introduce pie charts. Calculate and interpret the mean as an average.</p>	<p><b>* Geometry – Position, direction and motion</b> <u>(2 weeks)</u></p> <p>Coordinates in the first quadrant. Describe the position of a shape following a reflection or translation, knowing the shape has not changed.</p> <p>Revisit: Estimate and measure angles in degrees. Work out angles on a point on a straight line (total 180°) and within a whole turn (360°).</p>
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\* Taught by new teacher during 2 week transition at the end of the year.

**YEAR 9 (LBA)**

Autumn	<b>Addition, Subtraction, Multiplication and Division</b> (2 weeks) Revise calculation skills through multi-step problems. Perform mental calculations, including mixed operations and large numbers.	<b>Money (Number objectives in PIVATS)</b> (2 weeks) Add, subtract, multiply and divide amounts of money to give change, using both £ and p in practical contexts.	<b>Ratio</b> (2 weeks) Solve problems involving the calculation of percentages of whole numbers or measures such as 15% of 360 and the use of percentages for comparison.	<b>Statistics</b> (2 weeks) Interpret and construct pie charts and line graphs. Calculate and interpret the mean as an average.	<b>Geometry – Properties of Shapes</b> (3 weeks) Draw 2D shapes using given dimensions and angles. Describe and build 3D shapes – nets. Recognise angles where they meet at a point, are on a line or are vertically opposite. Find missing angles.	<b>Measure Length/height, Mass/weight, Capacity/volume</b> (2 weeks) Use, read, write and convert between standard units of length, weight and volume. Convert between miles and km.	<b>Measure Area and Perimeter</b> (2 weeks) Recognise that shapes with the same area can have different perimeters, and vice versa. Calculate the area of parallelograms and triangles. Recognise the formulas to work out area and capacity.
	AQA The Four Operations	AQA The Calendar and Time	Y9 children to join in with <b>Great Milton Bake Off – Maths Day</b>				
	AQA Properties of Number						

**YEAR 10 (JTU)**

Autumn Spring Summer	AQA Ratio	AQA Measures			
	AQA The Four Operations	AQA The Calendar and Time			
	AQA Money	Consolidation of skills. Ensure all portfolios are completed and evidence ready to pass to Y11.			

**YEAR 11 (NPR )**

Autumn Spring Summer	AQA Statistics	AQA Geometry			
	AQA Money	<u>Pathway 1</u> Exam preparation for Level 1/2 Functional Maths Paper	<u>Pathway 2</u> Functional Maths focus – money and time real life skills. Pre-Entry Level qualifications unit(s).		
	<u>Pathway 1</u> Exam preparation for Level 1/2 Functional Maths Paper	<u>Pathway 2</u> Functional Maths focus – money and time real life skills. Pre-Entry Level qualifications unit(s).			