



SHOBNALL PRIMARY & NURSERY SCHOOL
MATHEMATICS PROGRAMME OF STUDY
YEAR 5 LONG TERM OVERVIEW



YEAR FIVE MATHEMATICS LONG TERM OVERVIEW

KEY: **NUMBER**, **GEOMETRY**, **STATISTICS** and **MEASUREMENT**

AUTUMN TERM, **SPRING TERM** and **SUMMER TERM**

Week	Unit	Lesson titles	Domain	National Curriculum Pupils should be taught to:
1	Unit 1- Place value within 1,000,000 (1)	Lesson 1 – Roman numerals	Number- Number and place value	<ul style="list-style-type: none"> Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.
		Lesson 2 – Number to 10,000	Number- Number and place value	<ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit (100,000).
		Lesson 3 – Numbers to 100,000	Number- Number and place value	<ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit (100,000).
		Lesson 4 – Numbers to 1,000,000	Number- Number and place value	<ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit (100,000).
		Lesson 5 – Read and write 5-and 6-digit numbers	Number- Number and place value	<ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit (100,000).
2		Lesson 6 – Power of 10	Number- Number and place value	<ul style="list-style-type: none"> Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.
		Lesson 7 – 10, 100, 1,000, 100,000 more or less	Number- Number and place value	<ul style="list-style-type: none"> Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.
		Lesson 8 – Partition numbers to 1,000,000	Number- Number and place value	<ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit (100,000).
		End of Unit Check		
3	Unit 2 – Place value within 1,000,000 (2)	Lesson 1 – Number line to 1,000,000	Number- Number and place value	<ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.
		Lesson 2 – Compare and order numbers to 100,000	Number- Number and place value	<ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.
		Lesson 3 – Compare and order numbers to 1,000,000	Number- Number and place value	<ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.
		Lesson 4 – Round numbers to the nearest 100,000	Number- Number and place value	<ul style="list-style-type: none"> Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000

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		Lesson 5 – Round numbers to the nearest 10,000	Number- Number and place value	<ul style="list-style-type: none"> Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000
		Lesson 6 – Round numbers to the nearest 10, 100 and 1,000	Number- Number and place value	<ul style="list-style-type: none"> Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000
4	End of Unit Check			
	Unit 3 – Addition and subtraction	Lesson 1 – Mental Strategies (addition)	Number- Addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers.
		Lesson 2 – Mental Strategies (subtraction)	Number- Addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers.
		Lesson 3 – Add whole numbers with more than 4-digits (1)	Number- Addition and subtraction	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).
		Lesson 4 – Subtract whole numbers with more than 4-digits (1)	Number- Addition and subtraction	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).
Lesson 5 – Subtract whole numbers with more than 4-digits (2)		Number- Addition and subtraction	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). 	
5	Lesson 6 – Round to check answers	Number- Addition and subtraction	<ul style="list-style-type: none"> Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. 	
	Lesson 8 – Inverse operations (addition and subtraction)	Number- Addition and subtraction	<ul style="list-style-type: none"> Estimate and use inverse operations to check answers to a calculation. 	
	Lesson 9 – Multi-step addition and subtraction problems (1)	Number- Addition and subtraction	<ul style="list-style-type: none"> solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why. 	
	Lesson 10 – Multi-step addition and subtraction problems (2)	Number- Addition and subtraction	<ul style="list-style-type: none"> solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why. 	
	Lesson 11 – Solve missing number problems	Number- Addition and subtraction	<ul style="list-style-type: none"> solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why. 	

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6		Lesson 12 – Solve comparison problems	Number- Addition and subtraction	<ul style="list-style-type: none"> solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why.
	End of Unit Check			
7	Unit 5 – Multiplication and division (1)	Lesson 1 - Multiples	Number – Multiplication and division	<ul style="list-style-type: none"> Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
		Lesson 2 – Common multiples	Number – Multiplication and division	<ul style="list-style-type: none"> Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
		Lesson 3 – Factors	Number – Multiplication and division	<ul style="list-style-type: none"> Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
		Lesson 4 – Common factors	Number – Multiplication and division	<ul style="list-style-type: none"> Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
		Lesson 5 – Prime numbers	Number – Multiplication and division	<ul style="list-style-type: none"> Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.
		Lesson 6 – Square numbers	Number – Multiplication and division	<ul style="list-style-type: none"> Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³).
		Lesson 7 – Cube numbers	Number – Multiplication and division	<ul style="list-style-type: none"> Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³).
		Lesson 8 – Multiplying by 10,100 and 1,000	Number – Multiplication and division	<ul style="list-style-type: none"> Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.
		Lesson 9 – Divide by 10, 100 and 1,000	Number – Multiplication and division	<ul style="list-style-type: none"> Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.
		8		Lesson 10 – Multiples of 10, 100 and 1,000
End of Unit Check				

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9	Unit 5 – Fractions (1)	Lesson 1 – Equivalent fractions	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
		Lesson 2 – Equivalent fractions – unit and non-unit fractions	Number – Fractions (including decimals and percentages)	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
		Lesson 3 – Families of equivalent fractions	Number – Fractions (including decimals and percentages)	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
		Lesson 4 – Improper fractions to mixed number	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number.
		Lesson 5 – Mixed number to improper fractions	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number.
		Lesson 6 – Compare fractions less than 1	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Compare and order fractions whose denominators are all multiples of the same number.
		Lesson 7 – Order fractions less than Unit 1	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Compare and order fractions whose denominators are all multiples of the same number.
		Lesson 8 – Compare and order fractions greater than 1	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Compare and order fractions whose denominators are all multiples of the same number.
10	End of Unit Check			
	Unit 6 – Fractions (2)	Lesson 1 – Adding and subtracting fractions	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		Lesson 2 – Add fractions within 1	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		Lesson 3 – Add fractions with a total greater than 1	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.

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11		Lesson 4 – Add to a mixed number	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		Lesson 5 – Add two mixed numbers	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		Lesson 6 – Subtract fractions within 1	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		Lesson 7 – Subtract from a mixed number	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		Lesson 8 – Subtract from a mixed number – breaking the whole	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		Lesson 9 – Subtract two mixed numbers	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
12		Lesson 10 – Solve fraction problems	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		Lesson 11 – Solve multi-step fraction problems	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
End of Unit Check				
Consolidation				
Consolidation				
1	Unit 7 – Multiplication and division (2)	Lesson 1 – Multiply up to 4-digits by 1-digit.	Number – Multiplication and division	<ul style="list-style-type: none"> Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit numbers.
		Lesson 2 – Multiply 2-digits (area model)	Number – Multiplication and division	<ul style="list-style-type: none"> Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit numbers.

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2		Lesson 3 – Multiply 2 digits by 2-digits.	Number – Multiplication and division	<ul style="list-style-type: none"> Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit numbers.
		Lesson 4 – Multiply 3-digits by 2-digits.	Number – Multiplication and division	<ul style="list-style-type: none"> Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit numbers.
		Lesson 5 – Multiply 4-digit by 2-digit.	Number – Multiplication and division	<ul style="list-style-type: none"> Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit numbers.
		Lesson 6 – Divide 4-digit by 1-digit (1)	Number – Multiplication and division	<ul style="list-style-type: none"> Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
		Lesson 7 – Divide 4-digit by 1-digit (2)	Number – Multiplication and division	<ul style="list-style-type: none"> Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
		Lesson 8 – Divide by remainders	Number – Multiplication and division	<ul style="list-style-type: none"> Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
		Lesson 9 – Efficient divisions	Number – Multiplication and division	<ul style="list-style-type: none"> Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
		Lesson 10 - Solve problems with multiplication and division	Number – Multiplication and division	<ul style="list-style-type: none"> Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
3	Unit 8 – Fractions (3)	Lesson 1 – Multiply unit fractions by an integer	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
		Lesson 2 – Multiply non-unit fractions by an integer	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
		Lesson 3 – Multiply mixed numbers by integers (1)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.

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4	Lesson 4 – Multiply mixed numbers by integers (2)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
	Lesson 5 – Fractions of amounts	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
	Lesson 6 – Finding the whole	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
	Lesson 7 – Using fractions as operators	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
5	Unit 9 – Decimals and percentages	Lesson 1 – Write decimals up to 2 decimal places – less than 1	<ul style="list-style-type: none"> Read, write, order and compare numbers with up to three decimal places.
		Lesson 2 – Write decimals up to 2 decimal places – greater than 1	<ul style="list-style-type: none"> Read, write, order and compare numbers with up to three decimal places.
		Lesson 3 – Equivalent fractions and decimals – tenths.	<ul style="list-style-type: none"> Read and write decimal numbers as fractions
		Lesson 4 – Equivalent fractions and decimals- hundredths	<ul style="list-style-type: none"> Read and write decimal numbers as fractions
	Lesson 5 – Equivalent fractions and decimals	<ul style="list-style-type: none"> Read and write decimal numbers as fractions 	
	Lesson 6 – Thousandths as fractions	<ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents 	

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6		Lesson 7- Thousandths as decimals	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
		Lesson 8 – Thousandths on a place value grid	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
		Lesson 9 – Order and compare decimals – same number of decimal places	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Read, write, order and compare numbers with up to three decimal places.
		Lesson 10 – Order and compare decimals with up to 3 decimal places	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Read, write, order and compare numbers with up to three decimal places.
		Lesson 11 – Round to the nearest whole number	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Round decimals with two decimal places to the nearest whole number and to one decimal place.
		Lesson 12 – Round to one decimal place	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Round decimals with two decimal places to the nearest whole number and to one decimal place.
7		Lesson 13 – Understanding percentages	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal.
		Lesson 14 – Percentages as fractions and decimals	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal.
		Lesson 15 – Equivalent fractions, decimals and percentages.	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal.
Unit 10 – Measure – perimeter and area		Lesson 1 – Perimeter of rectangles	Measurement	<ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
		Lesson 2 – Perimeter of rectilinear shapes (1)	Measurement	<ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
		Lesson 3 – Perimeter of rectilinear shapes (2)	Measurement	<ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

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8		Lesson 4 – Perimeter of polygons	Measurement	<ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
		Lesson 5 – Area of rectangles (1)	Measurement	<ul style="list-style-type: none"> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.
		Lesson 6 – Area of rectangles (2)	Measurement	<ul style="list-style-type: none"> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.
		Lesson 7 – Area of compound shapes	Measurement	<ul style="list-style-type: none"> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.
		Lesson 8 – Estimate area	Measurement	<ul style="list-style-type: none"> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.
9	Unit 11 – Graphs and tables	Lesson 1 - Draw line graphs	Statistics	<ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph.
		Lesson 2 – Read and interpret line graphs (1)	Statistics	<ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph.
		Lesson 3 – Read and interpret line graphs (2)	Statistics	<ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph.
		Lesson 4 – Read and interpret tables	Statistics	<ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables.
		Lesson 5 – Two-way tables	Statistics	<ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables.
		Lesson 6 – Timetables - reading	Statistics	<ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables.
10	End of Unit Check			
	Consolidation			
	Consolidation			
	Consolidation			
11	Consolidation			
	Consolidation			

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Consolidation				
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12	Unit 12 – Geometry – properties of shapes	Lesson 1 – Understand and use degrees	Geometry	<ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.
		Lesson 2 – Measure acute angles	Geometry	<ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.
		Lesson 3 – Measure angles up to 180°	Geometry	<ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.
		Lesson 4 – Draw lines and angles accurately	Geometry	<ul style="list-style-type: none"> Draw given angles, and measure them in degrees (°).
		Lesson 5 – Calculate angles around a point	Geometry	<ul style="list-style-type: none"> Identify - angles at a point and one whole turn (total 360°) - angles at a point on a straight line and 1 2 a turn (total 180°) - other multiples of 90°
1		Lesson 6 - Calculate angles on a straight line	Geometry	<ul style="list-style-type: none"> Identify - angles at a point and one whole turn (total 360°) - angles at a point on a straight line and 1 2 a turn (total 180°) - other multiples of 90°.
		Lesson 7 – Lengths and angles in shapes	Geometry	<ul style="list-style-type: none"> Use the properties of rectangles to deduce related facts and find missing lengths and angles.
		Lesson 8 – Regular and irregular polygons	Geometry	<ul style="list-style-type: none"> Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
		Lesson 12 – 3D shapes	Geometry	<ul style="list-style-type: none"> Identify 3D shapes, including cubes and other cuboids, from 2D representations.
		2	Unit 13 – Geometry – position and direction	Lesson 1 – Read and plot coordinates
Lesson 2 – Problem solving with coordinates	Geometry			<ul style="list-style-type: none"> Describe the position on a 2D grid as coordinates in the first quadrant (Year 4).
Lesson 3 – Translate shapes	Geometry			<ul style="list-style-type: none"> Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.
Lesson 4 – Translate points	Geometry			<ul style="list-style-type: none"> Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.
Lesson 5 – Lines of symmetry	Geometry			<ul style="list-style-type: none"> Identify lines of symmetry in 2D shapes presented in different orientations (Year 4)

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		Lesson 6 – Reflection in horizontal and vertical lines	Geometry	<ul style="list-style-type: none"> Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.
3	Unit 14 – Decimals	Lesson 1 – Add and subtract decimals within 1 (1)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		Lesson 2 – Add and subtract decimals within 1 (2)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		Lesson 3 – Complements to 1	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		Lesson 4 – Add and subtract decimals (bridging)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		Lesson 5 – Add decimals- same number of decimal places	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
4		Lesson 6 - Subtract decimals with the same number of decimal places	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		Lesson 7 – Add decimals with different numbers of decimal places	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		Lesson 8 – Subtract decimals with different numbers of decimal places	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		Lesson 9 – Problem solving with decimals (1)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.

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5		Lesson 11 – Decimal sequences	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Read, write, order and compare numbers with up to three decimal places.
		Lesson 12 – Multiply by 10	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
		Lesson 13 – Multiply by 10, 100 and 1,000	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
		Lesson 14 - Divide by 10	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
		Lesson 15 – Divide by 10, 100 and 1,000	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
6	Unit 15 – Negative number	Lesson 1 – Understand negative number	Number- Number and place value	<ul style="list-style-type: none"> Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
		Lesson 2 – Count through zero	Number- Number and place value	<ul style="list-style-type: none"> Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
		Lesson 3 – Compare and order negative numbers	Number- Number and place value	<ul style="list-style-type: none"> Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
		Lesson 4 – Find the difference	Number- Number and place value	<ul style="list-style-type: none"> Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
7	Unit 16 – Measure converting units	Lesson 1 – Kilograms and kilometres	Measurement	<ul style="list-style-type: none"> Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).
		Lesson 2 – Millimetres and millilitres	Measurement	<ul style="list-style-type: none"> Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).
		Lesson 3 – Convert units of length	Measurement	<ul style="list-style-type: none"> Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).

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KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

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		Lesson 4 – Imperial units of length	Measurement	<ul style="list-style-type: none"> Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.
		Lesson 5 – Imperial units of mass	Measurement	<ul style="list-style-type: none"> Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.
		Lesson 6 – Imperial units of capacity	Measurement	<ul style="list-style-type: none"> Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.
		Lesson 7 – Convert units of time	Measurement	<ul style="list-style-type: none"> Solve problems involving converting between units of time.
	8		Lesson 8 – Timetables - calculating	Measurement
	Unit 17 – Volume and capacity	Lesson 1 – Cubic centimetre	Measurement	<ul style="list-style-type: none"> Estimate volume (for example, using 1 cm³ blocks to build cuboids (including cubes) and capacity (for example, using water).
		Lesson 2 – Compare volume	Measurement	<ul style="list-style-type: none"> Estimate volume (for example, using 1 cm³ blocks to build cuboids (including cubes) and capacity (for example, using water).
		Lesson 3 – Estimate volume	Measurement	<ul style="list-style-type: none"> Estimate volume (for example, using 1 cm³ blocks to build cuboids (including cubes) and capacity (for example, using water).
	RTP	5NPV–1	Number- Place value and number	<ul style="list-style-type: none"> Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.
9	RTP	5NPV–2	Number- Place value and number	<ul style="list-style-type: none"> Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning.
	RTP	5NPV–3	Number- Place value and number	<ul style="list-style-type: none"> Reason about the location of any number with up to 2 decimal places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each.
	RTP	5NPV–4	Number- Place value and number	<ul style="list-style-type: none"> Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.
	RTP	5NPV–5	Number- Place value and number	<ul style="list-style-type: none"> Convert between units of measure, including using common decimals and fractions.

YEAR FIVE MATHEMATICS LONG TERM OVERVIEW

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10	RTP	5NF-1	Number- Place value and number	<ul style="list-style-type: none"> Secure fluency in multiplication table facts, and corresponding division facts, through continued practice.
	RTP	5NF-2	Number- Place value and number	<ul style="list-style-type: none"> Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth).
	RTP	5MD-1	Number- Multiplication and division	<ul style="list-style-type: none"> Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size.
	RTP	5MD-2	Number- Multiplication and division	<ul style="list-style-type: none"> Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors.
	RTP	5MD-3	Number- Multiplication and division	<ul style="list-style-type: none"> Multiply any whole number with up to 4 digits by any one-digit number using a formal written method.
	RTP	5MD-4	Number- Multiplication and division	<ul style="list-style-type: none"> Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context.
11	RTP	5F-1	Number – Fraction (including decimals and percentages)	<ul style="list-style-type: none"> Find non-unit fractions of quantities.
	RTP	5F-2	Number – Fraction (including decimals and percentages)	<ul style="list-style-type: none"> Find equivalent fractions and understand that they have the same value and the same position in the linear number system.
	RTP	5F-3	Number – Fraction (including decimals and percentages)	<ul style="list-style-type: none"> Recall decimal fraction equivalents for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$ and $\frac{1}{10}$, and for multiples of these proper fractions.
	RTP	5G-1	Geometry	<ul style="list-style-type: none"> Compare angles, estimate and measure angles in degrees ($^{\circ}$) and draw angles of a given size.
	RTP	5G-2	Geometry	<ul style="list-style-type: none"> Compare areas and calculate the area of rectangles (including squares) using standard units.
12	Consolidation			
	Consolidation			

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AUTUMN TERM, **SPRING TERM** and **SUMMER TERM**

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	Consolidation
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