

The logo for Shobnall Primary School is a circular emblem with a yellow top half and a blue bottom half, separated by a red and orange border. It is positioned at the top center of the page.

SHOBNALL
PRIMARY
SCHOOL

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

The logo for the Mathematics department, featuring the letters 'MAT' in a stylized, green, blocky font with a white outline, positioned at the bottom center of the page.

MAT

YEAR 5 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 | <i>Unit 1- Place value within 100,000</i> | Lesson 1 – Numbers 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 (10,000). • Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 |
| | | Lesson 2 – Rounding 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 (10, 100 and 1,000). |
| | | Lesson 3 – 10,000s, 1,000s, 100s, 10s and 1s (1) | 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 – 10,000s, 1,000s, 100s, 10s and 1s (2) | Number- Number and place value | <ul style="list-style-type: none"> Solve number problems and practical problems that involve all of the above. |
| 2 | | Lesson 5 – The number line 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 6 – Comparing and ordering number 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 7 – Rounding numbers within 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. |
| | | Lesson 8 - Roman numerals to 10,000 | 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. |
| 3 | <i>Unit 2 – Place value within 1,000,000</i> | Lesson 1 – 100,000s, 10,000s, 1,000s, 100s, 10s and 1s (1) | 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 – 100,000s, 10,000s, 1,000s, 100s, 10s and 1s (2) | Number- Number and place value | <ul style="list-style-type: none"> Solve number problems and practical problems that involve all of the above. |
| | | Lesson 3 – Number line 10 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 – Comparing and ordering 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. |
| 4 | | Lesson 5 – Rounding numbers to a 1,000,000 | 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 – 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. |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMMER TERM

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| | | Lesson 7 – Counting in 10s, 100s, 1,000s, 10,000s | 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 – Number sequences | Number- Number and place value | <ul style="list-style-type: none"> Solve number problems and practical problems that involve all of the above. |
| 5 | Unit 3 – Addition and subtraction | Lesson 1 – Adding 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 2 – Adding 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). |
| | | Lesson 3 – Subtracting 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 – Subtracting 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). |
| 6 | | Lesson 5 – Using rounding to estimate and 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 6 – Mental addition and subtraction (1) | Number- Addition and subtraction | <ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers. |
| | | Lesson 7 – Mental addition and subtraction (2) | Number- Addition and subtraction | <ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. |
| | | Lesson 8 – Using inverse operations | Number- Addition and subtraction | <ul style="list-style-type: none"> Estimate and use inverse operations to check answers to a calculation. |
| 7 | | Lesson 9 – Problem solving – addition and subtraction (1) | Number- Addition and subtraction | <ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. |
| | | Lesson 10 – Problem solving – addition and subtraction (2) | Number- Addition and subtraction | <ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. |
| 8 | Unit 4 – Graphs and tables | Lesson 1 – Interpreting tables | Statistics | <ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables. |
| | | Lesson 2 – Two-way tables | Statistics | <ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables. |
| | Lesson 3 – Interpreting line graphs (1) | Statistics | <ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph. | |
| | Lesson 4 – Interpreting line graphs (2) | Statistics | <ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph. | |
| | Lesson 5 – Drawing line graphs | Statistics | <ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph. | |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMMER TERM

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| 9 | 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. Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. |
| | | Lesson 2 – 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. Establish whether a number up to 100 is prime and recall prime numbers up to 19. |
| | | Lesson 3 – 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 4 – Using factors | Number – Multiplication and division | <ul style="list-style-type: none"> Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes |
| | | Lesson 5 – Squares | 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). Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. |
| 10 | | Lesson 6 - Cubes | 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. Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3). Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. |
| | | Lesson 7 – Inverse operations | Number – Multiplication and division | <ul style="list-style-type: none"> Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. |
| | | Lesson 8 – Multiplying whole numbers 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 – multiplying whole numbers 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. Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMMER TERM

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| 11 | | Lesson 10 – Multiplying and dividing by multiples of 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. |
| | Unit 6 – Measure – area and perimeter | Lesson 1- Measuring perimeter | Measurement | <ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. |
| | | Lesson 2 – Calculating perimeter (1) | Measurement | <ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres |
| | | Lesson 3 – Calculating perimeter (2) | Measurement | <ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres |
| 12 | | Lesson 4 – Calculating area (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 5 – Calculating area (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 6 – Comparing 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. |
| | | Lesson 7 – Estimating 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. |
| 1 | Unit 7 – Multiplication and division (2) | Lesson 1 – Multiplying number up to 4-digit by a 1-digit number | 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 – Multiplying 2-digit numbers (1) | Number – Multiplication and division | <ul style="list-style-type: none"> Multiply and divide numbers mentally drawing upon known facts. |
| | | Lesson 3 – Multiplying 2-digit numbers (2) | Number – Multiplication and division | <ul style="list-style-type: none"> Multiply and divide numbers mentally drawing upon known facts. |
| | | Lesson 4 – Multiplying 2-digit numbers (3) | 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 |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMMER TERM

| | | | | |
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| 2 | | Lesson 5 – Multiplying a 3-digit number by a 2-digit number | 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 – Multiplying a 4-digit number by a 2-digit number | 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 7 – Dividing up to a 4-digit number by a 1-digit number (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 8 – Dividing up to a 4-digit number by a 1-digit number (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. |
| 3 | | Lesson 9 – Division with remainders (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 10 – Division with remainders (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 11- Problem solving – division with 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. |
| | Unit 8 – 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. |
| 4 | | Lesson 2 – Converting improper fractions to mixed numbers | 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 3 – Converting mixed numbers 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 4 – Number sequences | 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. |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMMER TERM

| | | | | |
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| 5 | | Lesson 5 – Comparing and ordering fractions (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 6 – Comparing and ordering fractions (2) | 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. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number. |
| | | Lesson 7 – Fractions as division (1) | 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 8 – Fractions as division (2) | 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. |
| 6 | Unit 9 – Fractions (2) | Lesson 1 – Adding and subtracting fractions with the same denominator | 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 – Adding and subtracting fractions (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 – Adding and subtracting fractions (2) | 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 4 – Adding fractions (1) | 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. Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |
| | | Lesson 5 – Adding fractions (2) | 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. Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMMER TERM

| | | | |
|----------|---|---|--|
| 7 | Lesson 6 – Adding fractions (3) | 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. Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |
| | Lesson 7 – Subtracting fractions (1) | 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. Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |
| | Lesson 8 – Subtracting fractions (2) | 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. Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |
| | Lesson 9 – Subtracting fractions (3) | 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. Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |
| 8 | Lesson 10 – Subtracting fractions (4) | 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. Add and subtract fractions with the same denominator and denominators that are multiples of the same number. |
| | Lesson 11 – Problem solving – mixed word problems (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 12 – Problem solving – mixed word problems (2) | 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 1 – Multiplying fractions (1) | 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. |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMMER TERM

| | | | | |
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| 9 | Unit 10 – Fractions (3) | | | <ul style="list-style-type: none"> • Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
| | | Lesson 2 – Multiplying fractions (2) | 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. • Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
| | | Lesson 3 – Multiplying fractions (3) | 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. • Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
| | | Lesson 4 – Multiplying fractions (4) | 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. • Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
| | | Lesson 5 – Calculating 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 – Using fractions as operators | 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. • Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. |
| | | Lesson 7 – Problem solving – mixed word problems | 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. |
| | Unit 11- Decimals and percentages | Lesson 1 – Writing decimals (1) | 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 2 – Writing decimals (2) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> • Read, write, order and compare numbers with up to three decimal places. |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMMER TERM

| | | | |
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| 11 | Lesson 3 – Decimals as fractions (1) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Read and write decimal numbers as fractions. |
| | Lesson 4 – Decimals as fractions (2) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Read and write decimal numbers as fractions. |
| | Lesson 5 – Understanding thousandths | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Read and write decimal numbers as fractions. |
| | Lesson 6 – Writing thousandths as decimals | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Read and write decimal numbers as fractions. |
| 12 | Lesson 7 – Ordering and comparing decimals (1) | 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 8 – Ordering and comparing decimals (2) | 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 9 – Rounding decimals | 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. |
| 1 | Lesson 10 – 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 11 – 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 12 – 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. Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25. |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMMER TERM

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| 2 | Unit 12 - Decimals | Lesson 1 – Adding and subtracting decimals (1) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. |
| | | Lesson 2 – Adding and subtracting decimals (2) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. |
| | | Lesson 3 – Adding and subtracting decimals (3) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. |
| | | Lesson 4 – Adding and subtracting decimals (4) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. |
| | | Lesson 5 – Adding and subtracting decimals (5) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. |
| | | Lesson 6 – Adding and subtracting decimals (6) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. |
| 3 | | Lesson 7 – Adding and subtracting decimals (7) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. |
| | | Lesson 8 – Adding and subtracting decimals (8) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. |
| | | Lesson 9 – 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 10 – Problem solving – decimals (1) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. |
| 4 | | Lesson 11 – Problem solving – decimals (2) | Number – Fractions (including decimals and percentages) | <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. |
| | | Lesson 12 – Multiplying decimals by 10 | Number – Fraction (including decimals and percentages) | <ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Solve problems involving number up to three decimal places. |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMMER TERM

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| 5 | | | 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 13 – Multiplying decimals by 10, 100 and 1,000 | Number – Fraction (including decimals and percentages) Number- Multiplication and division | <ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Solve problems involving number up to three decimal places. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000. |
| | | Lesson 14 – Dividing decimals by 10 | Number – Fraction (including decimals and percentages) Number- Multiplication and division | <ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Solve problems involving number up to three decimal places. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000. |
| | | Lesson 15 – Dividing decimals by 10, 100 and 1,000 | Number – Fraction (including decimals and percentages) Number- Multiplication and division | <ul style="list-style-type: none"> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Solve problems involving number up to three decimal places. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000. |
| 6 | Unit 13 – Geometry – propertie s of shapes (1) | Lesson 1 – Measuring angles in degrees | Geometry | <ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees (°). |
| | | Lesson 2 – measuring with a protractor (1) | Geometry | <ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees (°). |
| | | Lesson 3 – Measuring with a protractor (2) | Geometry | <ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees (°). 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 4 – Drawing lines and angles accurately | Geometry | <ul style="list-style-type: none"> Draw given angles, and measure them in degrees (°). |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

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AUTUMN TERM, SPRING TERM and SUMMER TERM

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| 7 | | Lesson 5 – Calculating 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 6 – Calculating 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°. |
| | | Lesson 7 – Calculating 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. |
| 8 | Unit 14 - Geometry – properties of shapes (2) | Lesson 1 – Recognising and drawing parallel lines | 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°. Use the properties of rectangles to deduce related facts and find missing lengths and angles |
| | | Lesson 2 – Recognising and drawing perpendicular lines | 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°. Use the properties of rectangles to deduce related facts and find missing lengths and angles |
| | | Lesson 3 – Reasoning about parallel and perpendicular lines | Geometry | <ul style="list-style-type: none"> Draw given angles, and measure them in degrees (°). 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°. Use the properties of rectangles to deduce related facts and find missing lengths and angles |
| | | Lesson 4 – 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 5 – Reasoning about 3D shapes | Geometry | <ul style="list-style-type: none"> Identify 3D shapes, including cubes and other cuboids, from 2D representations. |
| 9 | Unit 15 – Geometry – position and direction | Lesson 1- Reflection | 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 2 – Reflection with coordinates | 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 3 - Translation | 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. |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

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| 10 | | Lesson 4 – Translation with coordinates | 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. |
| | Unit 16 – Measuring – converting units | Lesson 1 – Metric units (1) | 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 – Metric units (2) | 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 – Metric units (3) | 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). Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling. |
| | | Lesson 4 – Metric units (4) | 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). Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling. |
| | | Lesson 5 – 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 6 – 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. |
| 11 | Lesson 7 – 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 8 – Converting units of time | Measurement | <ul style="list-style-type: none"> Solve problems involving converting between units of time. | |
| | Lesson 9 – Timetables | Measurement Statistics | <ul style="list-style-type: none"> Solve problems involving converting between units of time. Complete, read and interpret information in tables, including timetables. | |
| | Lesson 10 – problem solving – measure | Measurement | <ul style="list-style-type: none"> Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling. | |
| | 12 | Unit 17- Measure – volume | Lesson 1 – What is volume? | Measurement |
| Lesson 2 – Comparing volumes | | | 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). |

YEAR 5 MATHEMATICS LONG TERM OVERVIEW

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

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

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| | and capacity | Lesson 3 – Estimating 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 4 – Estimating capacity | 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). |