

## YEAR THREE MATHEMATICS MEDIUM TERM PLAN

## KEY: NUMBER, GEOMETRY, STATISTICS and MEASUREMENT

AUTUMN TERM, SPRING TERM and SUMIMER TERM

| Week | Unit | Lesson titles | Domain | National Curriculum Pupils should be taught to: |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Unit 1 Place value within 1,000 | Lesson 1 - Represent and partition numbers to 100 | Number - number and place value | - Recognise the place value of each digit in a 2-digit number (tens, ones) (YEAR 2) |
|  |  | Lesson 2 - Number line to 100 | Number - number and place value | - Compare and order numbers up to 1,000. |
|  |  | Lesson 3-100s | Number - number and place value | - Count from 0 in multiples of $4,8,50$ and 100 ; find 10 or 100 more or less than a given number. |
|  |  | Lesson 4 Represent numbers to 1,000 s | Number - number and place value | - Identify, represent and estimate numbers using different representations. |
| 2 |  | Lesson 5 - Partition numbers to 1,000 | Number - number and place value | - Recognise the place value of each digit in a three-digit number (hundreds, tens, and ones). |
|  |  | Lesson 6 - Partition numbers to 1,000 flexibly | Number - number and place value | - Recognise the place value of each digit in a three-digit number (hundreds, tens and ones). |
|  |  | Lesson 7 - 100s, 10s and 1s | Number - number and place value | - Recognise the place value of each digit in a three-digit number (hundreds, tens and ones). |
|  |  | Lesson 8 - Use a number line to 1,000 | Number - number and place value | - Identify, represent and estimate numbers using different representations. |
| 3 |  | Lesson 9 - Estimate on a number line to 1,000 | Number - number and place value | - Identify, represent and estimate numbers using different representations. |
|  |  | Lesson 10 - Find 1, 10 and 100 more or less | Number - number and place value | - Count from 0 in multiples of $4,8,50$ and 100; find 10 or 100 more or less than a given number. |
|  |  | Lesson 11 - Compare numbers to 1,000 | Number - number and place value | - Compare and order numbers up to 1,000. |
|  |  | Lesson 12 - Order numbers to 1,000 | Number - number and place value | - Compare and order numbers up to 1,000. |
| 4 |  | $\begin{aligned} & \text { Lesson13 - Count in } \\ & 50 \text { s } \end{aligned}$ | Number - number and place value | - Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number |
|  |  | Lesson 1- Apply number bonds within 10 | Number - Addition and subtraction | - Recognise the place value of each digit in a two-digit number (10s, 1s) (YEAR 2) |

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Unit 3-
Addition and Subtraction (2)

| Lesson 2 - Add/subtract 1s |
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| Lesson 3 - Add/subtract 10s |
| $\begin{aligned} & \text { Lesson } 4 \text { - Add/subtract } \\ & \text { 100s } \end{aligned}$ |
| Lesson 5 - Spot the pattern |
| Lesson 6 - Add 1s across 10 |
| Lesson 7 - Add 10s across 100 |
| Lesson 8 - Subtract 1s across 10 |
| Lesson 9 - Subtract 10s across 100 |
| Lesson 10 - Make connections |

Lesson 1- Add two numbers

Lesson 2 - Subtract two numbers
Lesson 3 - Add tow numbers (across 10) Lesson 4 - Add two numbers (across 100) Lesson 5 - Subtract two numbers (across 10) Lesson 6 - Subtract two numbers (across 100) Lesson 7 - Add a 3-digit and a 2-digit number

| Number - Addition <br> and subtraction |
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and subtraction Number - Addition and subtraction Number - Addition and subtraction
Number - Addition and subtraction

Number - Addition and subtraction Number - Addition and subtraction Number - Addition and subtraction Number - Addition and subtraction Number - Addition and subtraction Number - Addition and subtraction

- Add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds.
- Add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds.
- Add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds.
- Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.
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- Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.
- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
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| Lesson 8 - Subtract 2- <br> digit number from a 3- <br> digit number | Number - Addition <br> and subtraction | $\bullet$ |
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| Lesson 9 - <br> Complements to 100 | Number - Addition <br> and subtraction | $\bullet$ |
| Lesson $10-$ Estimate <br> answers | Number - Addition <br> and subtraction | $\bullet$ |
| Lesson 11 - Inverse <br> operations | Number - Addition <br> and subtraction | $\bullet$ |
| Lesson 12 - Problem <br> solving (1) | Number - Addition <br> and subtraction | $\bullet$ |
| Lesson 13 - Problem <br> solving (2) | Number - Addition <br> and subtraction | $\bullet$ |

Number-
Multiplication and division Number-
Multiplication and division
Lesson 3 - Multiples of 2

## Lesson 4 - Multiples of

5 and 10
Lesson 5 - Share and group

## Unit 5 -

Multiplication and division (2)

- Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.

Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.

- Estimate the answer to a calculation and use inverse operations to check answers.
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- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
- Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times onedigit numbers, using mental and progressing to formal written methods.
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- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
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## Unit 6 -

 Multiplication and division (3)| Lesson 1 - Multiples of <br> 10 | Number- <br> Multiplication and <br> division | $\bullet$ |
| :--- | :--- | :--- |
| Lesson 2 - Related <br> calculations | Number- <br> Multiplication and <br> division | $\bullet$ |
| Lesson 3 - Reasoning <br> about multiplication | Number- <br> Multiplication and <br> division | $\bullet$ |
| Lesson 4 - Multiply 2- <br> digits by 1-digit - no <br> exchange | Number- <br> Multiplication and <br> division | • |
| Lesson 5 - Multiply 2- <br> digits by 1-digit - <br> exchange | Number- <br> Multiplication and <br> division | $\bullet$ |
| Lesson 6 - Expanded <br> written methods. | Number- <br> Multiplication and <br> division | $\bullet$ |
| Lesson 7 - Link <br> multiplication and <br> division | Number- <br> Multiplication and <br> division | $\bullet$ |
| Lesson 8 - Divide 2- <br> digits by 1-digit -no <br> exchange | Number- <br> Multiplication and <br> division | $\bullet$ |
| Lesson 9 - Divide 2- <br> digits by 1-digit - flexible <br> partitioning | Number- <br> Multiplication and <br> division | $\bullet$ |
| Lesson 10 - Divide 2- <br> digits by 1-digit with <br> remainders | Number- <br> Multiplication and <br> division | $\bullet$ |
| Lesson 11 - How many <br> ways? | Number- <br> Multiplication and <br> division | $\bullet$ |

- Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times onedigit numbers, using mental and progressing to formal written methods.
- Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times onedigit numbers, using mental and progressing to formal written methods.
- Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.
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|  |  | Lesson 6 - Add and subtract mass | Measurement | - Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Lesson 7 - Problem solving - mass | Measurement | - Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) |
|  | Unit 10Capacity | Lesson 1 - Measure capacity and volume in millilitres | Measurement | - Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) |
| 1 |  | Lesson 2 -Compare capacity and volume | Measurement | - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $/ / \mathrm{ml}$ ) |
|  |  | Lesson 3 - Equivalent capacities and volumes (litres and ml ) | Measurement | - Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) |
|  |  | Lesson 4 - Compare capacity and volume | Measurement | - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity (l/ml) |
|  |  | Lesson 5 - Add and subtract capacity and volume | Measurement | - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $/ / \mathrm{ml}$ ) |
| 2 |  | Lesson 6 - Problem solving capacity | Measurement | - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity (l/ml) |
|  | Unit 11 - <br> Fractions (2) | Lesson 1 - Add fractions | Number - Fractions | - Add and subtract fractions with the same denominator within one whole |
|  |  | Lesson 2 - Subtract fractions | Number - Fractions | - Add and subtract fractions with the same denominator within one whole |
|  |  | Lesson 3 - Partitioning the whole | Number - Fractions | - Add and subtract fractions with the same denominator within one whole |
| 3 |  | Lesson 4 - Problem solving-adding and subtracting fractions | Number - Fractions | - Solve problems that involve all of the above. |
|  |  | Lesson 5 - Unit fractions of a set of objects | Number - Fractions | - Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. |
|  |  | Lesson 6 - Non - unit fractions of a set of objects | Number - Fractions | - Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. |

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|  |  | Lesson 7 - Reasoning with fractions of an amount | Number - Fractions | - Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. |
| :---: | :---: | :---: | :---: | :---: |
| 4 |  | Lesson 8 - Problem solving - fractions of measures | Number - Fractions | - Solve problems that involve all of the above. |
|  | Unit 12 Money | Lesson 1 - Pounds and pence | Measurement | - Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts. |
|  |  | Lesson 2 - Convert pounds and pence | Measurement | - Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts. |
|  |  | Lesson 3 - Add money | Measurement | - Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts. |
| 5 |  | Lesson 4 - Subtract money | Measurement | - Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts. |
|  |  | Lesson 5 - Find change | Measurement | - Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts. |
|  | Unit 13- Time | Lesson 1 - Roman numerals to 12 | Measurement | - Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12 -hour and 24 -hour clocks. |
|  |  | Lesson 2 - Tell the time to 5 minutes | Measurement | - Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks. |
| 6 |  | Lesson 3 - Tell the time to the minute | Measurement | - Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24 -hour clocks. |
|  |  | Lesson 4 - Convert past and to the hour | Measurement | - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. |
|  |  | Lesson 5 - Using am and pm | Measurement | - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. |
|  |  | Lesson 6 - Years, months, and days | Measurement | - Know the number of seconds in a minute and the number of days in each month, year and leap year. |
| 7 |  | Lesson 7 - Days and hours | Measurement | - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. |

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Unit 14 Angles and properties of shapes

| Lesson 8 - Hours and minutes - start and end times | Measurement | - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. |
| :---: | :---: | :---: |
| Lesson 9 - Hours and minutes - durations | Measurement | - Compare durations of events (for example to calculate the time taken by particular events or tasks). |
| Lesson 10 - Hours and minutes - compare durations | Measurement | - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. |
| Lesson 11 - Minutes and seconds | Measurement | - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. |
| Lesson 12 - Solve problems with time | Measurement | - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. |
| Lesson 1 - Turns and angles | Geometry Properties of shapes | - Recognise angles as a property of shape or a description of a turn. |
| Lesson 2 - Right angles in shapes | Geometry Properties of shapes | - Recognise angles as a property of shape or a description of a turn. |
| Lesson 3 - Compare angles | Geometry Properties of shapes | - Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle. |
| Lesson 4 - Measure and draw accurately | Geometry Properties of shapes | - Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them. |
| Lesson 5 - Horizontal and vertical | Geometry Properties of shapes | - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. |
| Lesson 6 - Parallel and perpendicular | Geometry Properties of shapes | - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. |

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| 10 |  | Lesson 7 - Recognise and describe 2D shapes | Geometry Properties of shapes | - Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them. |
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|  |  | Lesson 8 - Recognise and describe 3D shapes | Geometry Properties of shapes | - Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them. |
|  |  | Lesson 9 - Make 3D shapes | Geometry Properties of shapes | - Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them. |
|  | Unit 15Statistics | Lesson 1- Interpret pictograms (1) | Statistics | - Interpret and present data using bar charts, pictograms and tables. |
| 11 |  | Lesson 2 - Interpret pictograms (2) | Statistics | - Interpret and present data using bar charts, pictograms and tables. |
|  |  | Lesson 3 - Draw pictograms | Statistics | - Interpret and present data using bar charts, pictograms and tables. |
|  |  | Lesson 4 - Interpret bar charts | Statistics | - Interpret and present data using bar charts, pictograms and tables. |
|  |  | Lesson 5 - Draw bar charts | Statistics | - Interpret and present data using bar charts, pictograms and tables. |
| 12 |  | Lesson 6 - Collect and represent data | Statistics | - Interpret and present data using bar charts, pictograms and tables. |
|  |  | Lesson 7- Simple twoway tables | Statistics | - Interpret and present data using bar charts, pictograms and tables. |
|  | Consolidation |  |  |  |
|  | Consolidation |  |  |  |

