## Underhill Year 3 Programme of Study

| $\begin{aligned} & \text { g } \\ & \text { g } \\ & 5 \\ & 3 \\ & 4 \end{aligned}$ | 1. Number sense and exploring calculation strategies <br> (3 weeks) | - solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction <br> - recognise the place value of each digit (tens, ones), compare and order numbers up to 100 <br> find 10 more or less than a given number read and write numbers up to 100 in numerals and in words solve number problems and practical problems involving these ideas identify, represent and estimate numbers using different representations, including the number line <br> - add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts |
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|  | 2. Place value (2 weeks) | .. identify, represent and estimate numbers using different representations <br> - find 10 or 100 more or less than a given number recognise the place value of each digit in a three-digit number (hundreds, tens, ones) <br> - compare and order numbers up to 1000 <br> - read and write numbers up to 1000 in numerals and in words <br> - solve number problems and practical problems involving these ideas <br> - count from 0 in multiples of 50 and 100 |
|  | 3. Graphs <br> (1 week) | - interpret and present data using bar charts, pictograms and tables solve <br> - one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables |
|  | 4. Addition and subtraction (3 weeks) | - add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds <br> - add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction <br> estimate the answer to a calculation and use inverse operations to check answers <br> - solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction |
|  | 5. Length and perimeter (2 weeks) | . . measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ) solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction measure the perimeter of simple 2-D shapes continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed .. and simple equivalents of mixed units (for example, $5 \mathrm{~m}=500 \mathrm{~cm}$ ) |

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|  | 6. <br> Multiplication and division (2 weeks) | - recall and use multiplication and division facts for the 3 and 4 multiplication tables <br> - count from zero in multiples of 4 <br> . 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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|  | 7. Deriving multiplication and division facts <br> (3 weeks) | - recall and use multiplication and division facts for the 3 and 4 multiplication tables <br> - write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for twodigit numbers times one-digit 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 |
|  | 8. Time <br> (2 weeks) | - tell and write the time using 12-hour analogue and digital clocks, including using Roman numerals from I to XII estimate and read time <br> - with increasing accuracy to the nearest minute record and compare <br> - time in terms of seconds, minutes and hours <br> - use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight <br> - know the number of seconds in a minute and the number of days in each month, year and leap year <br> - compare durations of events [for example to calculate the time taken by particular events or tasks] |
|  | 9. Fractions <br> (3 weeks) | - recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators <br> - recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators <br> - count up and down in tenths <br> - recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 <br> - recognise and show, using diagrams, equivalent fractions with small denominators <br> - add and subtract fractions with the same denominator within one whole [ for example, ${ }^{5}+{ }^{1}={ }^{6}$ ] $777$ <br> - compare and order unit fractions, and fractions with the same denominators <br> - solve problems that involve all of the above | I Can You Can We Can


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|  | 11. <br> Measures <br> (3 weeks) | - measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity (l/ml) <br> - solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction <br> - continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed units (for example, 1 kg and 200 g ) and simple equivalents of mixed units (for example, $5 \mathrm{~m}=500 \mathrm{~cm}$ ) |
|  | 12. <br> Securing multiplication \& division <br> (1 week) | - write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for twodigit numbers times one-digit numbers, using mental and progressing to formal written methods <br> - recall and use multiplication and division facts for the 8 multiplication tables count from zero in multiples of 8 |
|  | 13. Exploring calculation strategies and place value (2 weeks) | . . add and subtract numbers mentally <br> find 1000 more or less than a given number; recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) <br> - (Y4) <br> - order and compare numbers beyond $1000(\mathrm{Y} 4)$ round any number to the nearest 10,100 or 1000 (Y4) |

