



Arithmetic skills progression

Dallimore Primary and Nursery School

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Autumn</p> <p>Recap any EYFS objectives</p> <p>One more to ten</p> <p>One less to ten</p> <p>Compare numbers</p> <p>Part whole models less than 10.</p> <p>Add symbol linked to part whole</p> <p>Number bonds within and to 10</p> <p>Adding single digit numbers using concrete/pictorial representations</p> <p>Subtraction by crossing out</p> <p>Subtract linked to part whole</p> <p>One more than teen numbers</p>	<p>Autumn</p> <p>Recap any Y1 objectives</p> <p>Representing numbers to 100</p> <p>Comparing numbers</p> <p>Partitioning 2-digit numbers using part whole model</p> <p>Fact families up to 20</p> <p>Use known facts e.g. $7 + 2 = 9$ so $70 + 20 = 90$</p> <p>+/- ones from a 2-digit number</p> <p>10 more/10 less from 2-digit numbers</p> <p>+/- multiples of 10 to/from a multiple of 10</p> <p>+/- multiples of 10 to/from a 2-digit number</p> <p>+ 2-digit and 1-digit number crossing 10</p> <p>- 1-digit from a 2-digit crossing 10</p> <p>+ using column method not crossing 10</p> <p>+ using the column method crossing 10</p> <p>- using the column method not crossing 10</p> <p>- using the column method crossing 10</p> <p>Bonds to 100 e.g. $39 + \underline{\quad} = 100$</p> <p>+ 3, 1-digit numbers</p>	<p>Autumn</p> <p>Recap any Y2 objectives</p> <p>1/10/100 more or less</p> <p>Count in 50s</p> <p>Partition numbers e.g. $789 = 700 + 80 + 9$</p> <p>+/- multiples of 10/100 using known facts $9 - 2 = 7$, $90 - 20 = 70$, $900 - 200 = 700$</p> <p>\times / \div by 2, 5 and 10</p> <p>+/- a 1-digit number to a 2/3-digit number (crossing tens)</p> <p>+/- multiples of 10 to a 2/3-digit number e.g. $456 + 30$</p> <p>+/- multiple of 100 e.g. $148 + \underline{\quad} = 648$</p> <p>Column method no exchange</p> <p>Column method exchange</p>	<p>Autumn</p> <p>Recap any Y3 objectives</p> <p>Round to 10/100/1000</p> <p>Count in 1000s</p> <p>Partition 4-digit numbers e.g. $8345 = 8000 + 300 + 40 + 5$</p> <p>1/10/100/1000 more or less</p> <p>Roman numerals and calculations with Roman numerals</p> <p>Column method +/- with exchange</p> <p>Subtract by counting on e.g. $804 - 796$</p> <p>\times by 10 and 100</p> <p>\div by 10 and 100</p> <p>\times by 1 and 0 e.g. $4 \times 3 \times 1$ or $4 \times 0 \times 3$</p> <p>\div by 1 and itself e.g. $9 \div 1$ and $9 \div 9$</p> <p>\times / \div 3, 6, 9 and 7</p>	<p>Autumn</p> <p>Recap any Y4 objectives</p> <p>Round numbers to the nearest 10/100/1000/10000/100000</p> <p>Roman numerals and calculations with Roman numerals</p> <p>Compare numbers to 1,000,000</p> <p>+ and - numbers with exchange</p> <p>Multiples/factors</p> <p>Squared and cubed numbers</p> <p>\times / \div by 10, 100 and 1000</p>	<p>Autumn</p> <p>Recap any Y5 objectives</p> <p>+/- numbers up to 1,000,000</p> <p>Short and long \times</p> <p>Short and long \div including decimal remainders</p> <p>Factors</p> <p>Multiples</p> <p>Prime numbers</p> <p>Squared and cubed numbers</p> <p>Order of operations</p> <p>Improper fractions to mixed numbers and vice versa</p> <p>\times / \div by 10, 100 and 1000</p> <p>10% and 1% of an amount</p> <p>+/- fractions</p> <p>+/- mixed numbers</p> <p>\times fractions by whole numbers</p> <p>\times fractions by fractions</p> <p>divide fractions by whole numbers</p>

<p>One less than teen numbers</p> <p>Spring</p> <p>Autumn term objectives and</p> <p>Add by counting on</p> <p>Subtract by counting back</p> <p>Fact families</p> <p>One more up to 50</p> <p>One less up to 50</p>	<p>Spring</p> <p>Autumn term objectives and</p> <p>Double numbers up to double 50</p> <p>\times number sentences e.g. $5 \times 2 = 10$ (for 2×5 and $10 \times$ tables)</p> <p>$+$ by 2, 5 and 10 number sentences</p> <p>Find $\frac{1}{2}$, $\frac{1}{3}$ and $\frac{1}{4}$ of a number</p>	<p>Spring</p> <p>Autumn term objectives and</p> <p>\times / \div by 3, 4 and 8</p> <p>Short multiplication no exchange e.g. 24×2</p> <p>Short multiplication exchange e.g. 36×3</p> <p>Find $\frac{1}{2}$, $\frac{1}{3}$ and $\frac{1}{4}$ of a number</p> <p>$+$/$-$ fractions with same denominators</p> <p>Double and halve numbers up to 100</p>	<p>Spring</p> <p>Autumn objectives and</p> <p>\times 3 numbers e.g. $5 \times 2 \times 6$</p> <p>3-digit \times 1-digit with exchange</p> <p>\times and \div by $11/12$</p> <p>$+$/$-$ fractions with same denominator</p> <p>$+$ more than 2 fractions (same denominator)</p> <p>Whole number subtract a fraction</p> <p>Fractions of amount</p> <p>Short division</p> <p>Double and halve numbers up to 1,000</p>	<p>Spring</p> <p>Autumn objectives and</p> <p>Short and long multiplication up to 4-digit by 2-digit</p> <p>Short division up to 4-digits</p> <p>Short division with remainders</p> <p>Converting improper fractions to mixed numbers and vice versa</p> <p>$+$/$-$ fractions</p> <p>$+$ more than 2 fractions</p> <p>$+$/$-$ mixed numbers</p> <p>\times fractions by whole numbers</p> <p>Find a fraction of an amount</p>	<p>Find fractions of an amount</p> <p>Spring</p> <p>Autumn objectives and</p> <p>Equivalent fractions</p> <p>Simplifying fractions</p> <p>% of amounts - all percentages</p> <p>Algebra and ratio problems</p>
<p>Summer</p> <p>All Autumn and Spring objectives</p>	<p>Summer</p> <p>All Autumn and Spring objectives</p>	<p>Summer</p> <p>All Autumn and Spring objectives</p>	<p>Summer</p> <p>All Autumn and Spring objectives</p>	<p>Summer</p> <p>Autumn and Spring objectives and</p> <p>Find 10% of a number by dividing by 10</p> <p>Double and halve numbers up to 10,000</p>	<p>Summer</p> <p>All Autumn and Spring objectives</p>