




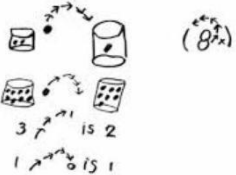

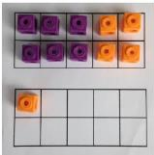


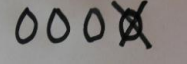

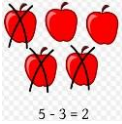
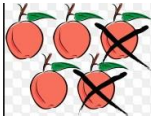
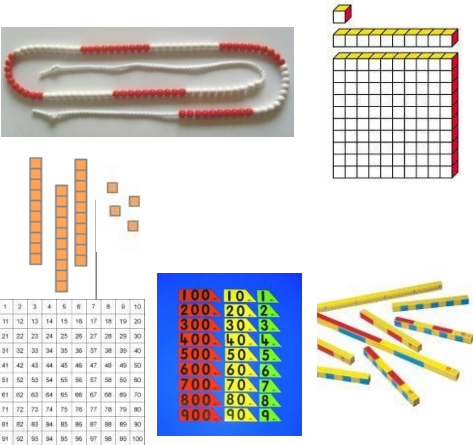
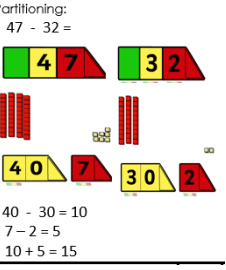
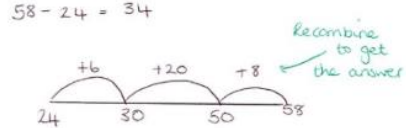


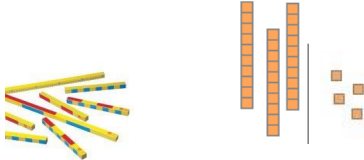
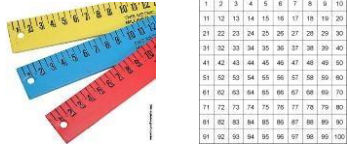
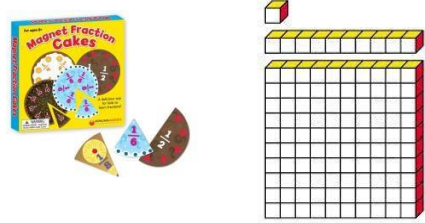

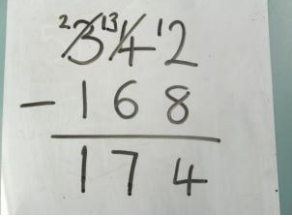
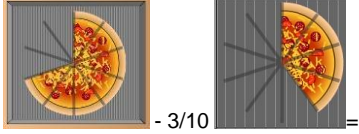
Lidget Green Primary School. Progress in Subtraction 2016


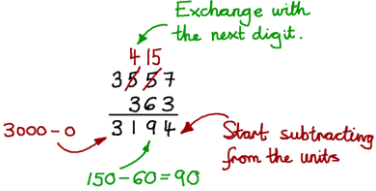
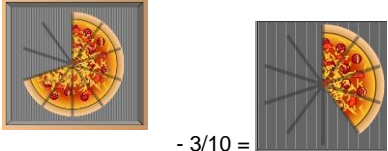
Year group	Objective	Method	Practical methods	Pictorial/written methods	Vocabulary	Mental recall
EYFS	<p>Compare sets of objects</p> <p>Remove objects from a set</p> <p>Say what is one less than a given number within 5 then 10, then 20</p> <p>Use quantities and objects to subtract using single digit numbers</p> <p>Subtract by counting back</p>	<p>Practical / recorded using ICT (eg digital photos / pictures on IWB)</p>	<p>Frogs on logs, Toys, Books, Beads, Rhymes, Counters, Number tiles, objects (stationary and moving) number lines, stories, Role play</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Taking away one      Comparing groups</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Counting back numbers      Subtracting single digits</p>	<p>Drawings of problems</p>  <p>Begin to record using marks they can explain</p> <p>10 t 1 i j p (2 t 1 i j p)</p> 	<p>Take away, left, left over, gone, one less, fewer, difference between, count back(wards), leaves</p>	<p>What is one less than... (numbers up to 20)</p>

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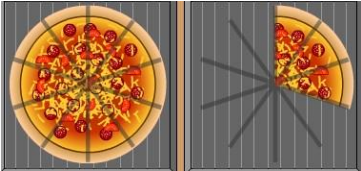
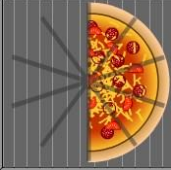

<p>Y1</p>	<p>Consolidation of EYFS</p> <p>Use subtraction (-) and equals (=) signs</p> <p>Represent and use subtraction facts within 20</p> <p>Subtract one-digit and two-digit numbers to 20, including 0</p> <p>Solve one-step problems that involve subtraction and missing number problems</p> <p>Concept of addition and subtraction as inverse operations</p>	<p>Practical / recorded using ICT</p> <p>Informal written methods</p> <p>Horizontal recording</p>	<p>Counting sticks, 100 Squares, Dienes, coins, cubes, bead strings, dominoes, dice, peg boards, tens frames</p>   <p>Counting back</p>  <p>Finding the difference</p>  <p>TU - U</p>	<p>Pictures to represent working out</p>  <p>Jumps along a number line in 1s</p>  <p>Horizontal layout</p>  <p><math>5 - 3 = 2</math></p> <p>Missing numbers</p>  <p><math>5 - ? = 3</math></p>	<p>As previous.</p> <p>Subtract, minus, leave, how much/many less, equals, find the differences</p>	<p>Consolidation of EYFS</p> <p>Subtraction facts linked to number bonds to 20, e.g. <math>10 - 7 = 3</math></p>
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<p><b>Y2</b></p>	<p>Consolidation of Y1</p> <p>Solve problems with subtraction, including those involving numbers, quantities and measures</p> <p>TU – U</p> <p>TU – T</p> <p>TU – TU</p> <p>Know that subtraction cannot be done in any order</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems</p>	<p>Practical</p> <p>Informal written methods</p> <p>Horizontal recording</p>	<p>Counting sticks, bead strings, number lines, 100 squares, Dienes, arrow cards</p> 	<p>Partitioning</p> <p>Partitioning: 47 - 32 =</p>  <p>40 - 30 = 10 7 - 2 = 5 10 + 5 = 15</p> <p>Number line progressing to efficient jumps</p> 	<p>As previous.</p> <p>inverse, partition</p>	<p>Increase fluency of subtraction facts to 10 then 20</p> <p>Derive and use related facts up to 100</p>
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<p>Y3</p>	<p>Consolidation of Y2</p> <p>Expanded formal method</p> <p>Subtract numbers with up to 3 digits, using formal written method (column) without decomposition</p> <p>Subtract numbers with up to 3 digits, using formal written method (column) with decomposition using term EXCHANGE</p> <p>Estimate the answer to a calculation and use inverse operations to check answers</p> <p>Subtract fractions with the same denominator within one whole</p> <p>Solve problems, including missing number problems, using number facts, place value, and more complex subtraction</p>	<p>Practical</p> <p>Informal written methods</p> <p>Horizontal recording</p> <p>Formal written method</p>	<p>Counting sticks, dienes, number lines, hundred square, tape measures, fraction pictures, place value counters</p>    	<p>Expanded method without decomposition</p> $67 - 32 = 35$ <p>Partition both numbers. <math>67 = 60 + 7</math> <math>-32 = 30 + 2</math></p> <p>line up the tens and units.</p> $\begin{array}{r} 67 \\ -32 \\ \hline 35 \end{array}$ <p>Recombine to get the answer. <math>35 = 30 + 5</math></p> <p>Expanded method with decomposition. Remember, NO BORROWING – we EXCHANGE</p> $62 = 50 + 12$ $62 = 60 + 2$ $-35 = 30 + 5$ $27 = 20 + 7$ <p>We exchange 1 ten for 10 units.</p> <p>Formal method with decomposition</p>  <p>Subtract fractions</p> $7/10 - 3/10 = 4/10$ 	<p>As previous.</p> <p>column subtraction, exchange, common denominators, decomposition</p>	<p>HTU - U HTU - T HTU - H</p> <p>TU - near multiple of 10</p>
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<p>Y4</p>	<p>Consolidation of Y3</p> <p>Subtract numbers with up to 4 digits using the formal written methods (column)</p> <p>Subtract decimals in context of money</p> <p>Estimate and use inverse operations to check answers to a calculation</p> <p>Solve subtraction two-step problems in contexts, deciding which operations and methods to use and why</p> <p>Subtract fractions with the same denominator</p>	<p>Practical</p> <p>Informal written methods</p> <p>Horizontal recording</p> <p>Formal written method</p>	<p>Dienes, tape measures, place value counters, coins, fraction cards, pizzas</p> 	<p>Partitioning</p> $5678 - 3462$ $5000 - 3000 = 2000$ $600 - 400 = 200$ $70 - 60 = 10$ $8 - 2 = 6$ $2000 + 200 + 10 + 6 = 2216$ <p>Column subtraction (with decomposition)</p>  <p>Column subtraction using decimals (in context of money)</p> $\begin{array}{r} \pounds 6 \cdot \overset{3}{\cancel{4}} \overset{1}{5} \\ - \pounds 4 \cdot 1 \overset{7}{7} \\ \hline \pounds 2 \cdot 2 \overset{8}{8} \end{array}$ <p>Subtract fractions</p> $7/10 - 3/10 = 4/10$ 	<p>As previous.</p> <p>Increase, decimal point, denominator, numerator</p>	<p>As previous with increasing fluency</p> <p>Subtract mentally with increasingly large numbers</p>

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<p>Y5</p>	<p>Consolidation of Y4</p> <p>Subtract whole numbers with more than 4 digits, using formal written methods (column)</p> <p>Subtract numbers with up to 3 decimal places using formal written methods (column)</p> <p>Solve subtraction multi-step problems in contexts, deciding which operation and methods to use and why</p> <p>Subtract fractions with the same denominator, and denominators that are multiples of the same number</p>	<p>Practical</p> <p>Informal written methods</p> <p>Horizontal recording</p> <p>Formal written method</p>	<p>Dienes, place value counters, fraction cards</p> 	<p>Column subtraction (with decomposition)</p> <p>As in Year 4 but with 3 decimal places</p> <p>Subtract fractions  <math>13/10 - 4/5 = 5/10 = 1/2</math></p>   <p>TAKE AWAY 4/5 =</p>	<p>As previous.</p> <p>tenths, hundredths, thousandths, partition, near multiples</p>	<p>Subtract mentally with increasingly large numbers</p> <p>Subtraction facts linked to bonds up to 1 (one dp) eg <math>1.0 - 0.7 = 0.3</math></p> <p>U - U.t</p>
<p>Y6</p>	<p>Consolidation of Y5</p> <p>Application of all prior skills learnt to increase fluency</p> <p>Solve multi-step problems deciding on appropriate operation</p> <p>Pupils explore the order of operations using brackets</p> <p>Subtract fractions with different denominators/ mixed numbers</p>	<p>Practical</p> <p>Informal written methods</p> <p>Formal written method</p>	<p>Dienes, place value counters, fraction cards/cubes</p> 	<p><math>3/4 - 2/3</math></p> <p>↓ ↓</p> <p><math>9/12 - 8/12 = 1/12</math></p>	<p>As previous.</p> <p>Common denominator</p>	<p>As previous with increasing fluency</p> <p>Subtract mentally with increasingly large numbers and mixed operations.</p>