



Progression in Mathematics: Addition and Subtraction

Concept	Nursery and EYFS	Year 1 and Year 2	Year 3 and Year 4	Year 5 and Year 6
Recall Represent Use	<p>recognise some numbers of personal significance</p> <p>selects the correct numeral to represent 1-5 then 1-10 objects</p> <p>records using marks that they can interpret and explain</p> <p>recognise some numbers of personal significance</p> <p>selects the correct numeral to represent 1-5 then 1-10 objects</p> <p>records using marks that they can interpret and explain</p>	<p>read, write and interpret mathematical statements involving addition, subtraction and equals signs</p> <p>represent and use number bonds and related subtraction facts within 20</p> <p>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</p> <p>show that addition of that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</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>estimate the answer to a calculation and use inverse operations to check answers</p> <p>estimate and use inverse operations to check answers to a calculation</p>	<p>use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</p>
Calculations	<p>in practical activities and discussion, begins to use the vocabulary involved in adding and subtracting</p> <p>using quantities and objects add and subtract two single digit numbers</p> <p>count on or back to find the answer</p> <p>solve problems including doubling, halving and sharing</p> <p>solve real world mathematical problems with numbers up to 5</p>	<p>add and subtract one- digit and two digit numbers to 20, including zero</p> <p>add and subtract numbers using concrete objects, pictorial representations, and mentally , including</p> <ul style="list-style-type: none"> -a two digit number and ones -a two digit number and tens -adding 3 one digit numbers 	<p>add and subtract mentally</p> <ul style="list-style-type: none"> -a three digit number and ones -a three digit number and tens -a three digit number and hundreds <p>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</p> <p>add and subtract numbers with up to four digits, using formal written methods of columnar addition and subtraction</p>	<p>add and subtract numbers with up to four digits, using formal written methods of columnar addition and subtraction</p> <p>perform mental calculations, including mixed operations and large numbers</p> <p>use their knowledge of the order to carry out calculations involving the four operations</p>

<p>Solve Problems</p>	<p>begins to identify their own mathematical problems based on their interests</p> <p>solve problems including doubling halving and sharing</p> <p>solve real world mathematical problems with numbers up to 5</p>	<p>solve one step problems involving addition and subtraction (Using pictorial and concrete representations)</p> <p>solve missing number problems such as $9 = _ + 7$</p> <p>solve problems involving addition and subtraction (using concrete objects and pictorial representations, including those involving numbers quantities and measures</p> <p>applying their increasing knowledge of mental and written methods</p>	<p>solve problems including missing number problems, using number facts, place value and more complex addition and subtraction</p> <p>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</p>	<p>solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why</p> <p>solve problems involving addition, subtraction, multiplication and division</p> <p>solve problems using a combination of all 4 functions</p> <p>solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p>
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