

Curriculum progressionNumber: Addition and Subtraction

Number Bonds						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
I know my number bonds up to 5  I know my number bonds up to 10.  I know doubles of numbers within 10.  I know that two equal groups are called a double so I can show this on my fingers up to double 5.	I know my number bonds to 20 so I can represent them in different ways.  I know my number bonds within 20 so I can write subtraction related facts.	I know my addition and subtraction facts to 20 so I can recall them fluently.  I know addition and subtraction facts to 100 so I can use related facts.				

**Mental Calculations**

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>I know how to add 1 more to numbers within 10 so I can identify one more.</p> <p>I know how to add 1 less to numbers within 10 so I can identify one less.</p>	<p>I know how to add and subtract a one digit number from a number within 20 including 0.</p> <p>I know how to add and subtract a two-digit number from a number within 20 including 0.</p>	<p>I know subtraction is not commutative so that I always start with the largest number.</p> <p>I know how to add and subtract two-digit and ones mentally.</p> <p>I know how to add and subtract two-digit number and tens mentally.</p> <p>I know how to add and subtract 2 two-digit numbers mentally.</p> <p>I know how to add three one-digit numbers mentally.</p>	<p>I know how to mentally add and subtract three-digit number and ones.</p> <p>I know how to mentally add and subtract three-digit number and tens.</p> <p>I know how to mentally add and subtract three-digit number and hundreds.</p>		<p>I know how to mentally add and subtract increasingly large numbers.</p>	<p>I know how to use calculations including mixed operations and large numbers so I can perform mentally.</p>

**Written Methods**

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>I know the mathematical sign for addition (+) so I can read, write and interpret it.</p> <p>I know the mathematical sign for subtraction (-) so I can read, write and interpret it.</p> <p>I know the mathematical sign for equals (=) so I can read, write and interpret it.</p>	<p>I know the mathematical sign for addition (+) so I can read, write and interpret it.</p> <p>I know the mathematical sign for subtraction (-) so I can read, write and interpret it.</p> <p>I know the mathematical sign for equals (=) so I can read, write and interpret it.</p> <p>I know how to add and subtract one digit and two-digit numbers from a number within 20 including 0.</p>	<p>I know how to add and subtract numbers so I can use concrete objectives/pictorial representations to show this. (two-digit number and ones) (two-digit number and tens) (two two-digit numbers) (adding three one-digit numbers)</p>	<p>I know how to use columnar addition and subtraction so I can add and subtract numbers with up to three digits using the formal method.</p>	<p>I know how to use columnar addition and subtraction so that I can add and subtract numbers with up to 4 digits using the formal method.</p>	<p>I know how to use columnar addition and subtraction so that I can add and subtract numbers more than 4 digits using the formal method.</p>	<p>I know the four operations are addition, subtraction, multiplication and division.</p> <p>I know BIDMAS means (brackets, indices, division, multiplication, addition and subtraction) so I can apply the order of operations.</p>

**Inverse Operations, Estimating, Checking Answers**

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
I know my number bonds to 5 so I can recall the subtraction facts.	I know the relative between addition and subtraction is inverse so I can use it.	I know the relative between addition and subtraction is inverse so I can use it. I know to use the inverse to check calculations.	I know how to estimate the answer to a calculation. I know to use the inverse to check calculations.	I know how to estimate the answer to a calculation.  I know to use the inverse to check calculations.	I know to round numbers to check a calculation.	

**Problem Solving**

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	I know how to solve one step problems using addition and subtraction so I can use objects to show this.	I know to use the inverse to check calculations. I know how to use concrete objects and pictorial representations so I can use to solve problems.  I know how to use mental and written methods so I can solve problems with addition and subtraction.	I know how to use number facts to solve problems including missing number problems.	I know how to solve addition and subtraction two-step problems so that I can decide which operation and method to use.	I know how to use rounding to determine the level of accuracy so I can solve problems.  I know how to select the correct operation and method so I can solve multi-step problems for addition and subtraction.  I know the meaning of the equal sign (equal to) so I can solve problems involving addition, subtraction, multiplication and division.	I know how to select the correct operation and method so I can solve multi-step problems for addition and subtraction.