

Mathematics Curriculum Progression Map

Number: Addition and Subtraction

| EYFS | | | | | | | | | |
|---|--|--|--|--|---------------|---|---|--|--|
| <u>3-4 Year</u> <u>olds</u> | <u>Reception</u> | Year 1 | <u>Year 2</u> | <u>Year 3</u> | <u>Year 4</u> | <u>Year 5</u> | <u>Year 6</u> | | |
| Number Bonds | | | | | | | | | |
| | Automatically recall number bonds for numbers 0-5 and some to 10. | Represent and use number bonds and related subtraction facts within 20 | Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 | | | | | | |
| | Mental Calculation | | | | | | | | |
| Use finger rhymes and counting songs to explore number patterns | Explore the composition of numbers to 10. <i>(Focus on</i> <i>composition</i> | Add and subtract one-digit and two- digit numbers to 20, including zero | Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: | Add and subtract numbers mentally, including: | | Add and subtract numbers mentally with increasingly large numbers | Perform mental calculations, including with mixed operations and large numbers | | |

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| | of 2, 3, 4 and 5 before moving onto larger numbers Model conceptual subitising: "Well, there are three here and three here, so there must be 6." | Read, write and | a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers | a three-digit number and ones a three-digit number and tens a three-digit number and hundreds | | | Use their | |
|-----------------|---|----------------------|---|---|-------------------|-------------------|--------------------|--|
| | | mathematical | be done in any | | | | order of | |
| | | statements | order | | | | operations to | |
| | | involving addition | (commutative) and | | | | carry out | |
| | | (+), subtraction (-) | subtraction of one | | | | calculations | |
| | | and equals (=) | number from | | | | involving the four | |
| | | signs <i>(cross</i> | another cannot | | | | operations | |
| | | reference - | (cross reference – | | | | | |
| | | Written Methods) | Written Methods) | | | | | |
| Written Methods | | | | | | | | |
| | | Read, write and | Show that addition | Add and subtract | Add and subtract | Add and subtract | | |
| | | interpret | of two numbers can | numbers with up | numbers with up | whole numbers | | |
| | | mathematical | be done in any | to three digits, | to 4 digits using | with more than 4 | | |
| | | statements | order | using formal | the formal | digits, including | | |
| | | involving addition | (commutative) and | written methods | written methods | using formal | | |
| | | (+), subtraction (-) | subtraction of one | of columnar | of columnar | written methods | | |
| | | and equals (=) | number from | addition and | addition and | (columnar | | |
| | | signs <i>(cross</i> | another cannot | subtraction | subtraction | | | |

| | reference - Mental | (cross reference – | | where | addition and | | | |
|---|--------------------|------------------------------------|-------------------|------------------|-------------------|--------------------|--|--|
| | Calculation) | Mental | | appropriate | subtraction) | | | |
| | | Calculations) | | | | | | |
| Inverse Operations, Estimating and Checking Answers | | | | | | | | |
| | | Recognise and use | Estimate the | Estimate and use | Use rounding to | Use estimation to | | |
| | | the inverse | answer to a | inverse | check answers to | check answers to | | |
| | | relationship | calculation and | operations to | calculations and | calculations and | | |
| | | between addition | use inverse | check answers to | determine, in the | determine, in the | | |
| | | and subtraction and | operations to | a calculation | context of a | context of a | | |
| | | use this to check | check answers | | problem, levels | problem, levels of | | |
| | | calculations and | | | of accuracy | accuracy. | | |
| | | solve missing | | | | | | |
| | | number problems | | | | | | |
| | | Proble | em Solving | | · | · | | |
| Children | Solve one-step | Solve problems with | Solve problems, | Solve addition | Solve addition | Solve addition | | |
| learn number | problems that | addition and | including missing | and subtraction | and subtraction | and subtraction | | |
| bonds | involve addition | subtraction: | number | two-step | multi-step | multi-step | | |
| through lots | and subtraction, | using concrete | problems, using | problems in | problems in | problems in | | |
| of "hands- | using concrete | objects and | number facts, | contexts, | contexts, | contexts, | | |
| on" | objects and | pictorial | place value, and | deciding which | deciding which | deciding which | | |
| experiences | pictorial | representations, | more complex | operations and | operations and | operations and | | |
| of | representations, | including those | addition and | methods to use | methods to use | methods to use | | |
| partitioning | and missing | involving | subtraction | and why | and why | and why | | |
| and | number problems | numbers, | | | | | | |
| combining | such as 7 = □ - 9 | quantities and | | | | | | |
| numbers in | | measures | | | | Solve problems | | |
| different | | applying their | | | | involving | | |
| contexts, and | | increasing | | | | addition, | | |
| seeing | | knowledge of | | | | subtraction, | | |
| subitising | | mental and | | | | multiplication | | |
| patterns | | written | | | | and division | | |
| | | methods | | | | | | |

| | i, a m gi | (Solve simple problems in a practical context nvolving addition and subtraction of poney of the same unit, including ving change (cross reference from | | |
|--|--------------------|--|--|--|
| | | reference from Measurement) | | |