

Year	Number Bonds	Mental Calculation	Written Methods	Inverse Operations, Estimating and Checking Answers	Problem Solving
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Glen Hills Primary School Progression Map
Maths – Addition and Subtraction



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4+	Automatically recall number bonds for numbers 0–5 and some to 10.	<p>Understand the ‘one more than/one less than’ relationship between consecutive numbers.</p> <p>Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.</p>	Experiment with their own symbols and marks including numerals.		Solve real world problems with numbers up to 5

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Year 1	To represent and use number bonds and related subtraction facts within 20.	To add and subtract one-digit and two-digit numbers to 20, including zero.	To read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. (appears also in Mental Calculation)		To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = - 9$
Year 2	To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	To add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers. 		To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	To solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods. To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. (copied from Measurement)
Year 3	.	To add and subtract numbers mentally, including:	To add and subtract numbers with up to three digits, using	To estimate the answer to a calculation and use inverse	To solve problems, including missing number problems,

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		<ul style="list-style-type: none"> a three-digit number and ones a three-digit number and tens a three-digit number and hundreds. 	formal written methods of columnar addition and subtraction.	operations to check answers.	using number facts, place value, and more complex addition and subtraction.
Year 4			To add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.	To estimate and use inverse operations to check answers to a calculation.	To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Year 5		To add and subtract numbers mentally with increasingly large numbers.	To add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).	To use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.	To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

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Year 6		To perform mental calculations, including with mixed operations and large numbers.		To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.	To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. To solve problems involving addition, subtraction, multiplication and division.
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