

<b>Ellingham C of E Primary School</b> <b>Year 5 Assessment Expectations</b> <b>Mathematics: Calculation 1</b>		
<b>End of Term 1</b>	<b>End of Term 2</b>	<b>End of Term 3</b>
<b>Developing and applying calculation: Addition and Subtraction</b>		
I am beginning to understand and use the relationships between the four operations and the principles of the arithmetic laws; commutative, associative and distributive to support calculation and to solve number puzzles, routine and non-routine problems and explain reasoning.		I understand and use the relationships between the four operations and the principles of the arithmetic laws; commutative, associative and distributive to support calculation and to solve number puzzles, routine and non-routine problems and explains reasoning. (Distributivity can be expressed as $a(b+c) = ab + ac$ ).
I can use rounding, estimation and inverse operations to check answers to calculations and determine, in the context of a problem, levels of accuracy.	I often use rounding, estimation and inverse operations to check answers to calculations and determine, in the context of a problem, levels of accuracy.	I confidently use rounding, estimation and inverse operations to check answers to calculations and determine, in the context of a problem, levels of accuracy.
I add and subtract numbers mentally with increasingly large numbers e.g. Using place value and known facts to subtract one near multiple of 100 from another e.g. $607 - 499 = 108$ or $2\ 146 - 1998 = 148$ . I explain methods.	I add and subtract numbers mentally with increasingly large numbers e.g. Using place value and known facts to subtract one near multiple of 1000 from another e.g. $6097 - 4070$ or $12\ 462 - 2300$ . I explain methods.	I can add and subtract numbers mentally with increasingly large numbers identifying when a mental method is more appropriate.
<b>Mental Calculation:</b>		
I mentally add and subtract tenths.	I mentally add and subtract tenths, and one digit whole numbers and tenths.	I mentally add and subtract decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimal places, and complements of 1 (e.g. $0.83 + 0.17 = 1$ )
<b>Written Calculation:</b>		
I continue to add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.	I can add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).	I fluently add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).
<b>Problem Solving:</b>		
I can solve addition and subtraction multi-step problems with appropriate numbers in contexts, deciding which operations and methods to use and why. I solve calculation problems using information from a range of table and charts.		I solve addition and subtraction multi-step problems with appropriate numbers in contexts, deciding which operations and methods to use and why. I solve calculation problems using information from a range of table and charts.