

# Bitterley Church of England Primary School

“Be courageous; be strong. Do everything in love” (1 Corinthians 16:13-14)



## Coverage and progression of addition across cycles A and B

	1	2	3	4	5	6
Autumn 1						
Autumn 2	<p><b><u>Addition and subtraction calculations</u></b> add and subtract one-digit and two- digit numbers to 20, including zero</p> <p><b><u>Addition and subtraction problems</u></b> • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as <math>7 = c - 9</math></p> <p><b><u>RTP Number facts</u></b> <a href="#">1NF-1 Develop fluency in addition and subtraction facts within 10</a> <a href="#">5 – Number bonds within 10</a> <a href="#">6 – Systematic number bonds within 10</a> <a href="#">7 – Number bonds to 10</a></p>	<p><b><u>Addition and subtraction calculations</u></b> • add and subtract numbers using concrete objects, pictorial representations, and mentally, including: &gt; a two-digit number and ones &gt; a two-digit number and tens &gt; two two-digit numbers &gt; adding three one-digit numbers</p> <p><b><u>Addition and subtraction problems</u></b> • solve problems with addition and subtraction: &gt; using concrete objects and pictorial representations, including those involving numbers, quantities and measures &gt; applying their</p>	<p><b><u>Addition and subtraction calculations</u></b> • add and subtract numbers mentally, including: &gt; a three-digit number and ones &gt; a three-digit number and tens &gt; a three-digit number and hundreds • add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</p> <p><b><u>Addition and subtraction problems</u></b> • solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</p>	<p><b><u>Addition and subtraction calculations</u></b> add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</p> <p><b><u>Addition and subtraction problems</u></b> • solve addition and subtraction two- step problems in contexts, deciding which operations and methods to use and why</p>	<p><b><u>Addition and subtraction calculations</u></b> • add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) • add and subtract numbers mentally with increasingly large numbers</p> <p><b><u>Addition and subtraction problems</u></b> • solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why • solve problems involving addition, subtraction, multiplication and</p>	<p><b><u>Addition and subtraction calculations</u></b> • perform mental calculations, including with mixed operations and large numbers • use their knowledge of the order of operations to carry out calculations involving the four operations</p> <p><b><u>Addition and subtraction problems</u></b> • solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why</p> <p><b><u>RTP Addition, subtraction, multiplication and division</u></b> <a href="#">6AS/MD-2 Use a given</a></p>

	<p><b><u>RTP Addition and subtraction</u></b>  1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers.  5 – Number bonds within 10  6 – Systematic number bonds within 10  7 – Number bonds to 10</p> <p>1AS-2 Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and equations to real-life contexts.  4 – Fact families – addition facts  8 – Addition – add together  9 – Addition – add more  10 – Addition problems  11 – Find a part  12 – Subtraction – find a part  13 – Fact families – the eight facts  14 – Subtraction – take away/cross out (How many left?)  15 – Subtraction – take away (How many left?)  16 – Subtraction on a number line</p>	<p>increasing knowledge of mental and written methods</p> <p><b><u>RTP Number facts</u></b>  2NF-1 Secure fluency in addition and subtraction facts within 10, through continued practice.  1 – bonds to 10  6 – Add by making 10  8 – Add to the next 10  11 – subtract from a 10</p> <p><b><u>RTP Addition and subtraction</u></b>  2AS-1 Add and subtract across 10  2AS-3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number.  2AS-4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.</p>	<p><b><u>RTP Number facts</u></b>  3NF-1 Secure fluency in addition and subtraction facts that bridge 10, through continued practice.  6 – Add 1s across a 10  7 – Add 10s across a 100  8 – Subtract 1s across a 10  9 – Subtract 1s across a 100  13 – Add two numbers (across a 10)  14 – Add two numbers (across a 100)  15 – Subtract two numbers (across a 10)  16 – Subtract two numbers (across a 100)</p> <p><b><u>RTP Addition and subtraction</u></b>  3AS-1 Calculate complements to 100  3AS-2 Add and subtract up to three-digit numbers using columnar methods.  3AS-3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part-part-whole structure. Understand and use the commutative property of addition, and understand the</p>		<p>division and a combination of these, including understanding the meaning of the equals sign</p>	<p>additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.</p> <p>8 – Solve problems with multiplication  10 – Division using factors  13 – Solve problems with division  14 – Solve multi-step problems  17 – Reason from known facts</p>
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			related property for subtraction.			
Spring 1		<p><b><u>RTP Addition and subtraction</u></b>  2AS-2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?".  2AS-4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.  8 – Make a pound  9 – Find change</p>				<p><b><u>RTP Addition, subtraction, multiplication and division</u></b>  6AS/MD-1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).  1 – Add or multiply? 5  – Scale drawing  6 – Use scale factors 7  – Similar shapes  8 – Ratio problems  9 – Proportion problems 10 – Recipes</p> <p>6AS/MD-3 Solve problems involving ratio relationships.</p> <p>6AS/MD-4 Solve problems with 2 unknowns.</p>
Spring 2	<p><b><u>Addition and subtraction calculations</u></b>  add and subtract one-digit and two- digit numbers to 20, including zero  <b><u>Addition and subtraction problems</u></b>  • solve one-step problems that involve addition and</p>					

	<p>subtraction, using concrete objects and pictorial representations, and missing number problems such as <math>7 = c - 9</math></p> <p><b>RTP Number facts</b>  1NF-1 Develop fluency in addition and subtraction facts within 10  2 – Add ones using number bonds  6 – Subtract ones using number bonds</p> <p><b><u>RTP Addition and subtraction</u></b>  1AS-2 Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and equations to real-life contexts.  1 – Add by counting on within 20  6 – Subtract ones using number bonds  7 – Subtraction – counting back  8 – Subtraction – finding the difference  10 Missing number problems</p>					
Spring 3		<p><b><u>RTP Addition and subtraction</u></b>  2AS-4 Add and subtract within 100 by applying related one-</p>				

		digit addition and subtraction facts: add and subtract any 2 two-digit numbers. 5- four operation with lengths and heights				
Summer 1						
Summer 2			<p><b><u>RTP Addition and subtraction</u></b>  3AS-1 Calculate complements to 100  3AS-3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part-part-whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction.</p>			