



ALMOND HILL JUNIOR SCHOOL MEDIUM TERM PLAN

TOPIC TITLE: Bright sparks. LS 11 Formal written method for multiplication and LS 12 Formal written method of short division.

YEAR GROUP: 5

TERM: Autumn 2

<p>Vocabulary</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Multiple</td> <td>Dividend</td> </tr> <tr> <td>Divide</td> <td>Divisor</td> </tr> <tr> <td>Digit</td> <td>Quotient</td> </tr> <tr> <td>Regroup</td> <td>Sharing/grouping</td> </tr> <tr> <td>Place value</td> <td>Short division</td> </tr> <tr> <td>Place holder</td> <td>Remainder</td> </tr> </table>	Multiple	Dividend	Divide	Divisor	Digit	Quotient	Regroup	Sharing/grouping	Place value	Short division	Place holder	Remainder	<p>Skills</p> <ul style="list-style-type: none"> - Formal multiplication of up to a 4 digit number by 1 digit number with regrouping. - Long multiplication. - Formal multiplication of up to a 4 digit number by a 2 digit number with regrouping. - Division as sharing, grouping and then the formal method (short division). - Expressing remainders as fractions and decimals. - Ability to consider what the remainder means and answer a problem taking this into account. 	<p>What we already know</p> <ul style="list-style-type: none"> - Year 4 – formal written method for multiplication and division (when answer is a whole number). 																																																											
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<p>Illustration</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <table border="1" style="border-collapse: collapse; text-align: center; width: 150px;"> <tr><td>x</td><td>1</td><td>3</td><td>2</td></tr> <tr><td></td><td></td><td>4</td><td>6</td></tr> <tr><td></td><td></td><td>1</td><td>2</td></tr> <tr><td></td><td>1</td><td>8</td><td>0</td></tr> <tr><td></td><td>6</td><td>0</td><td>0</td></tr> <tr><td></td><td></td><td>8</td><td>0</td></tr> <tr><td>1</td><td>2</td><td>0</td><td>0</td></tr> <tr><td>4</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>16</td><td>10</td><td>7</td><td>2</td></tr> </table> <table border="1" style="border-collapse: collapse; text-align: center; width: 150px;"> <tr><td>x</td><td>1</td><td>3</td><td>2</td></tr> <tr><td></td><td></td><td>4</td><td>6</td></tr> <tr><td></td><td></td><td>1</td><td>2</td></tr> <tr><td></td><td>1</td><td>7</td><td>9</td><td>2</td></tr> <tr><td>1</td><td>5</td><td>2</td><td>8</td><td>0</td></tr> <tr><td>6</td><td>0</td><td>7</td><td>2</td></tr> </table> </div> <div style="margin-top: 20px;"> <table border="1" style="border-collapse: collapse; text-align: center; width: 100px;"> <tr><td>0</td><td></td><td></td><td></td></tr> <tr><td>7</td><td>6</td><td>7</td><td>7</td><td>6</td></tr> </table> </div>	x	1	3	2			4	6			1	2		1	8	0		6	0	0			8	0	1	2	0	0	4	0	0	0	16	10	7	2	x	1	3	2			4	6			1	2		1	7	9	2	1	5	2	8	0	6	0	7	2	0				7	6	7	7	6	<p>Application/Outcomes</p> <ul style="list-style-type: none"> - Revision and rehearsal of formal method for 2/3 digit number multiplied (X) by a 1 digit number. - Applying previous skill to 3/4 digit number multiplied (X) by a 1 digit number. With and without regrouping. - Rehearsal and application of multiplying by a 2 digit number using long multiplication. - Comparing long and short multiplication and rehearsal of both. - Rehearsing division as sharing. - Rehearsing division as grouping. - Completing short division calculations for numbers up to 4 digits. - Completing short division with remainders and applying this to worded problems. 	<p>Concepts</p> <ul style="list-style-type: none"> - Formal multiplication with regrouping. - Division is sharing into equal groups (no remainder). - The dividend is the number being divided. - The divisor is the number you are dividing it by. - The quotient is the answer to a division calculation.
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