Weekly Maths Planning Sheet		Focus:	Key Vocab:		
Week Beg: 19/10/20		Arithmetic focus Division	calculate mentally formal method column method integer decimal add, plus, sum, total subtract, take away, difference multiply, product represent estimate round approximate formula term		
Learning Objectives	Main Teaching	Representing (Showing)	Fluency (Practising)	Probing Questions (Explaining)	Rich and Complex Tasks (Solving)
<ol> <li>Divide a 3/4- digit number by a 1-digit number using a written method</li> <li>X2 sessions for some</li> </ol>	What is dividing? What is meant by the term divide? How can we explain what we are doing to a number when we are dividing? Recap the bus stop method - most will have done this in year 5 - using the interactive whiteboard model 3 and 4 digit numbers divided by 1.		Same progression as modelled set of division calculations 8842 ÷ 2 3248 ÷ 4 5766 ÷ 6 2877 ÷ 3 8476 ÷ 4 4185 ÷ 5 4279 ÷ 5 9759 ÷ 7	Convince me 1756 ÷ 5 will have a remainder of 1	
	<ul> <li>Model</li> <li>no exchange necessary e.g. 9366 ÷ 3</li> <li>first digit is lower than divisor requiring exchange e.g. 2196 ÷ 3</li> <li>single exchange e.g. 2376 ÷ 3 or 8476 ÷ 4</li> <li>two or more exchanges e.g. 4185 ÷ 5</li> <li>examples with remainders e.g. 4189 ÷ 5</li> </ul>		Over into a second session due to inaccuracy 9366 ÷ 3 4848 ÷ 4 2196 ÷ 3 4505 ÷ 5 2376 ÷ 3 6472 ÷ 8 3792 ÷ 4 9856 ÷ 8 4189 ÷ 5 7399 ÷ 4 LA - working on dividing by 2, 3 and 5 Sharing with the use of objects		

2. Divide a 3- digit number by 2-digit number using a formal written method	<ul> <li>Model</li> <li>known times table, no remainder e.g. 756 ÷ 12</li> <li>simple times table to derive, no remainder e.g. 966 ÷ 21</li> <li>larger number requiring derivation of times table, no remainder 986 ÷ 34</li> <li>examples with remainders e.g. 874 ÷ 15</li> </ul>	Same progression as modelled set of division calculations Have divisions within the 12 x table in case 920 ÷ 10 612 ÷ 12 864 ÷ 24 945 ÷ 21 468 ÷ 36 672 ÷ 42 864 ÷ 15 923 ÷ 23 328 ÷ 32 LA - working on dividing by 2, 3 and 5	Convince me 598 ÷ 26 = 23
<ol> <li>Divide a 4- digit number by a 2-digit number using a formal written method</li> <li>X2 sessions needed</li> </ol>	Model• known times table, no remainder e.g. 2856 ÷ 12• simple times table to derive, no remainder e.g. 6594 ÷ 21• larger number requiring derivation of times table, no remainder 3591 ÷ 57• examples with remainders e.g. 4588 ÷ 16Taking two sessions	Some children staying within their times tables, so they are still dividing using the formal method 1 140 ÷ 12 1 188 ÷ 12 1 320 ÷ 12 2 136 ÷ 12 3 568 ÷ 12 4 738 ÷ 12 9 635 ÷ 12 Majority - those accurate with x12 to progress to these calculations 1 140 ÷ 12 1 001 ÷ 11 1 365 ÷ 21	Convince me that 6279 ÷ 23 = 273 Always, Sometimes, Never? Long division is needed to divide a four digit number by a two digit number

			1 056 ÷ 22 1 120 ÷ 14 4 788 ÷ 57 3 366 ÷ 34 5 269 ÷ 27 6 917 ÷ 46 9 308 ÷ 25 LA - working on dividing by 2, 3 and 5 Bus stop method		
4. Divide a 4- digit number by a 2-digit number using a formal written method giving the remainder as a fraction	<ul> <li>Continue after half term</li> <li>known times table, no remainder e.g. 2857 ÷ 12</li> <li>simple times table to derive, no remainder e.g. 6597 ÷ 21</li> <li>larger number requiring derivation of times table, no remainder 3541 ÷ 57</li> </ul>	Using place value counters to complete the division practically. When the final remaining units are separated, using bar to represent how much of a full divisor they are. When dividing by 12 and having a remaining 5 ones, this represents or 5/12 of a whole column	4637 ÷ 12 2398 ÷ 12 5437 ÷ 12 3928 ÷ 12 1965 ÷ 21 2130 ÷ 29 9822 ÷ 34	Convince me that if I divide 132 sweets between 5 people, this gives 26 r2 or 26 2/5 each.	

5.	Divide a 4- digit number by a 2-digit number, giving an answer to up to 2dp, using a formal written method	<ul> <li>Divide a 4-digit number by a 2-digit number, giving an answer to up to 2dp, using a formal written method</li> <li>example resulting in exactly 1dp e.g. 4580 ÷ 16</li> <li>example resulting in exactly 2dp e.g. 4576 ÷ 16</li> <li>example resulting in longer decimal (requiring truncation) e.g. 4579 ÷ 16</li> </ul>		Answer to one decimal place 3928 ÷ 11 1965 ÷ 23 Answer to two decimal places 2130 ÷ 29 9822 ÷ 34 9144 ÷ 29	Convince me that 6143 ÷ 11 = 558.45 to 2 decimal places.
6.	Recognise and solve a simple division problem, interpreting any remainders in the context as appropriate.	Using the bar model to represent a word or other division problem. For example: 6 people share £1764 equally between them. How much do they each receive? 1764 294 294 294 294 294 294 294	Keeping with the use of bar models Remainder problems - an account has £9542 in it. If you spend £86 per day, after how many days will the money run out? word problem - sharing language e.g. 3282g flour to make 56 cupcakes. How much flour is in each cupcake? word problem - grouping language e.g. 2543 people go to Wembley. 52	<text><text><text><text><text><text><text><text><text><text><text><text><image/><image/></text></text></text></text></text></text></text></text></text></text></text></text>	Convince me that a remainder of 5 can mean different things in different questions

	people can fit on each bus. What is the minimum number of buses required?	done, expressed as a fraction or a decimal	