



St Joseph's Catholic Primary School

# Maths Calculation Policy



At St Joseph's Catholic Primary School, the aim of our calculation policy is to ensure all children receive equity of offer. Calculation procedures are taught according to this document so they can be seamlessly built upon year after year, as the child moves through school.

The policy has been taken and adapted to suit our children from White Rose Maths. We have found their calculation policy to be the one which works for the needs of our children and suits the way in which we teach Maths. The use of concrete resources and visuals underpins this calculation policy, which is what you would see in our maths lesson.

The policy goes through:

Addition

Subtraction

Multiplication

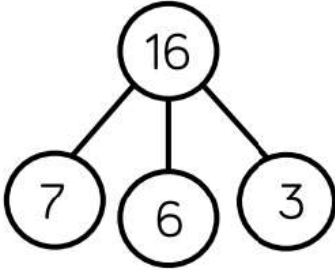
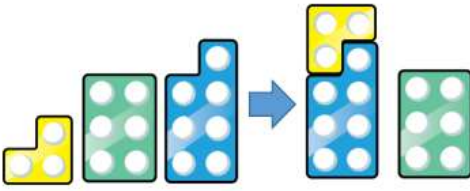
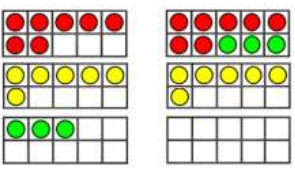
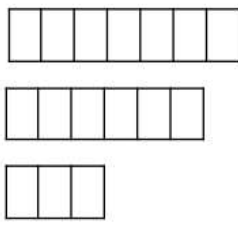
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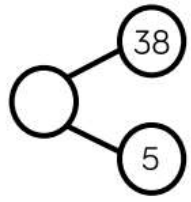
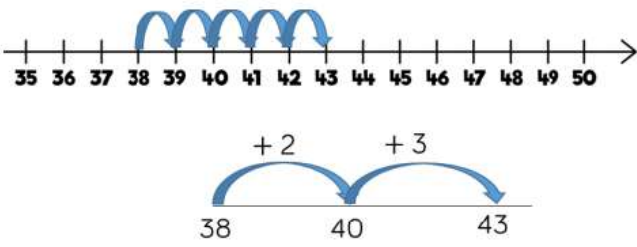
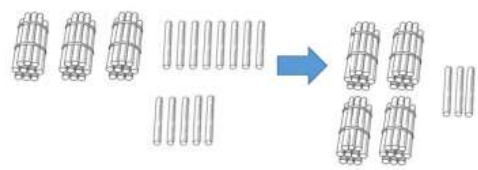
Each operation is broken down into skills for the year group and shows recommended models and visuals to support the teaching of the corresponding concepts alongside.

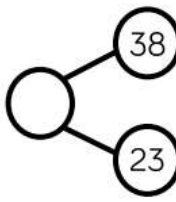
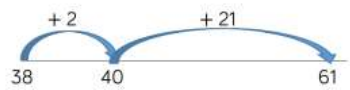
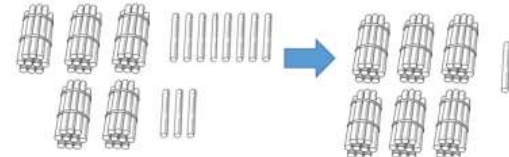
ADDITION

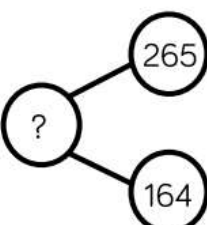
Skill: Add 1-digit numbers within 10	Year: 1
<p style="text-align: center;"><math>4 + 3 = 7</math></p>	<p>When adding numbers to 10, children can explore both aggregation and augmentation.</p> <p>The part-whole model, discrete and continuous bar model, number shapes and ten frame support aggregation.</p> <p>The combination bar model, ten frame, bead string and number track all support augmentation.</p>

Skill: Add 1 and 2-digit numbers to 20	Year: 1/2
<p style="text-align: center;"><math>8 + 7 = 15</math></p>	<p>When adding one-digit numbers that cross 10, it is important to highlight the importance of ten ones equalling one ten.</p> <p>Different manipulatives can be used to represent this exchange. Use concrete resources alongside number lines to support children in understanding how to partition their jumps.</p>

Skill: Add three 1-digit numbers	Year: 2
<div style="text-align: center;">  </div> <div style="text-align: center; margin: 10px 0;">  </div> <div style="text-align: center; margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"> <math>7 + 6 + 3 = 16</math> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><math>7 + 6 + 3 = 16</math></p> </div> <div style="text-align: center;">  <p>16</p> </div> </div>	<p>When adding three 1-digit numbers, children should be encouraged to look for number bonds to 10 or doubles to add the numbers more efficiently.</p> <p>This supports children in their understanding of commutativity.</p> <p>Manipulatives that highlight number bonds to 10 are effective when adding three 1-digit numbers.</p>

Skill: Add 1-digit and 2-digit numbers to 100	Year: 2/3																																																																																																				
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">  <p style="text-align: center;">?</p> </div> <div>  </div> </div> <div style="text-align: center; margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"> <math>38 + 5 = 43</math> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div> <table border="1" style="border-collapse: collapse; text-align: center; font-size: small;"> <tbody> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></tr> <tr><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td></tr> <tr><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td></tr> <tr><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td></tr> <tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td></tr> <tr><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td></tr> <tr><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td></tr> </tbody> </table> </div> </div>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	<p>When adding single digits to a two-digit number, children should be encouraged to count on from the larger number.</p> <p>They should also apply their knowledge of number bonds to add more efficiently e.g. <math>8 + 5 = 13</math> so <math>38 + 5 = 43</math>.</p> <p>Hundred squares and straws can support children to find the number bond to 10.</p>
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Skill: Add two 2-digit numbers to 100	Year: 2/3																							
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>?</p> <table border="1" style="margin: 0 auto;"> <tr><td style="width: 50px; text-align: center;">38</td><td style="width: 50px; text-align: center;">23</td></tr> </table> </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <div style="text-align: center; margin: 10px 0;"> <table border="1" style="border-radius: 10px; padding: 5px;"> <tr><td style="font-size: 1.2em;"><b>38 + 23 = 61</b></td></tr> </table> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr><th style="font-size: 0.8em;">Tens</th><th style="font-size: 0.8em;">Ones</th></tr> </thead> <tbody> <tr><td style="text-align: center;">    </td><td style="text-align: center;">●●●●</td></tr> <tr><td style="text-align: center;">    </td><td style="text-align: center;">●●●●</td></tr> <tr><td style="text-align: center;"> </td><td style="text-align: center;">●</td></tr> </tbody> </table> </div> <div style="width: 30%; text-align: center;"> <table style="margin: 0 auto;"> <tr><td style="text-align: right;">38</td></tr> <tr><td style="text-align: right;">+ 23</td></tr> <tr><td style="text-align: right; border-top: 1px solid black;">61</td></tr> <tr><td style="text-align: right; border-top: 1px solid black;">1</td></tr> </table> </div> <div style="width: 30%;"> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr><th style="font-size: 0.8em;">Tens</th><th style="font-size: 0.8em;">Ones</th></tr> </thead> <tbody> <tr><td style="text-align: center;">●●●●</td><td style="text-align: center;">●●●●</td></tr> <tr><td style="text-align: center;">●●●●</td><td style="text-align: center;">●●●●</td></tr> <tr><td style="text-align: center;">●●</td><td style="text-align: center;">●</td></tr> </tbody> </table> </div> </div>	38	23	<b>38 + 23 = 61</b>	Tens	Ones		●●●●		●●●●		●	38	+ 23	61	1	Tens	Ones	●●●●	●●●●	●●●●	●●●●	●●	●	<p>At this stage, encourage children to use the formal column method when calculating alongside straws, base 10 or place value counters. As numbers become larger, straws become less efficient.</p> <p>Children can also use a blank number line to count on to find the total. Encourage them to jump to multiples of 10 to become more efficient.</p>
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Skill: Add numbers with up to 3 digits	Year: 3																																	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>?</p> <table border="1" style="margin: 0 auto;"> <tr><td style="width: 80px; text-align: center;">265</td><td style="width: 80px; text-align: center;">164</td></tr> </table> </div> <div style="text-align: center;"> <table style="margin: 0 auto;"> <tr><td style="border: 1px solid black; padding: 2px;">265</td></tr> <tr><td style="border: 1px solid black; padding: 2px;">164</td></tr> </table> </div> </div> <div style="text-align: center; margin: 10px 0;"> <table border="1" style="border-radius: 10px; padding: 5px;"> <tr><td style="font-size: 1.2em;"><b>265 + 164 = 429</b></td></tr> </table> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr><th style="font-size: 0.8em;">Hundreds</th><th style="font-size: 0.8em;">Tens</th><th style="font-size: 0.8em;">Ones</th></tr> </thead> <tbody> <tr><td style="text-align: center;">■■■</td><td style="text-align: center;">     </td><td style="text-align: center;">●●●●</td></tr> <tr><td style="text-align: center;">■■■</td><td style="text-align: center;">     </td><td style="text-align: center;">●●●●</td></tr> <tr><td style="text-align: center;">■</td><td style="text-align: center;"> </td><td style="text-align: center;">●</td></tr> </tbody> </table> </div> <div style="width: 30%; text-align: center;"> <table style="margin: 0 auto;"> <tr><td style="text-align: right;">265</td></tr> <tr><td style="text-align: right;">+ 164</td></tr> <tr><td style="text-align: right; border-top: 1px solid black;">429</td></tr> <tr><td style="text-align: right; border-top: 1px solid black;">1</td></tr> </table> </div> <div style="width: 30%;"> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr><th style="font-size: 0.8em;">Hundreds</th><th style="font-size: 0.8em;">Tens</th><th style="font-size: 0.8em;">Ones</th></tr> </thead> <tbody> <tr><td style="text-align: center;">●●●</td><td style="text-align: center;">●●●●</td><td style="text-align: center;">●●●●</td></tr> <tr><td style="text-align: center;">●●●</td><td style="text-align: center;">●●●●</td><td style="text-align: center;">●●●●</td></tr> <tr><td style="text-align: center;">●</td><td style="text-align: center;">●</td><td style="text-align: center;">●</td></tr> </tbody> </table> </div> </div>	265	164	265	164	<b>265 + 164 = 429</b>	Hundreds	Tens	Ones	■■■		●●●●	■■■		●●●●	■		●	265	+ 164	429	1	Hundreds	Tens	Ones	●●●	●●●●	●●●●	●●●	●●●●	●●●●	●	●	●	<p>Base 10 and place value counters are the most effective manipulatives when adding numbers with up to 3 digits.</p> <p>Ensure children write out their calculation alongside any concrete resources so they can see the links to the written column method.</p> <p>Plain counters on a place value grid can also be used to support learning.</p>
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Skill: Add numbers with up to 4 digits	Year: 4																																																												
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Skill: Add numbers with more than 4 digits	Year: 5/6																																																												
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div> <div style="text-align: center; margin: 10px 0;"> </div> <div style="text-align: center; margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;"> <math>104,328 + 61,731 = 166,059</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <table border="1" style="border-collapse: collapse; width: 45%;"> <thead> <tr style="background-color: #f2f2f2;"><th>HTh</th><th>TTh</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="6" style="border-top: 1px solid black;"></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> <table border="1" style="border-collapse: collapse; width: 45%;"> <tr><td>1</td><td>0</td><td>4</td><td>3</td><td>2</td><td>8</td></tr> <tr><td>+</td><td>6</td><td>1</td><td>7</td><td>3</td><td>1</td></tr> <tr><td colspan="6" style="border-top: 1px solid black;"></td></tr> <tr><td>1</td><td>6</td><td>6</td><td>0</td><td>5</td><td>9</td></tr> <tr><td colspan="6" style="text-align: center;">1</td></tr> </table> </div>	HTh	TTh	Th	H	T	O																									1	0	4	3	2	8	+	6	1	7	3	1							1	6	6	0	5	9	1						<p>Place value counters or plain counters on a place value grid are the most effective concrete resources when adding numbers with more than 4 digits.</p> <p>At this stage, children should be encouraged to work in the abstract, using the column method to add larger numbers efficiently.</p>
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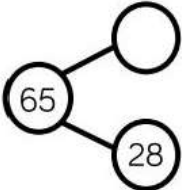
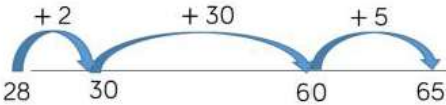
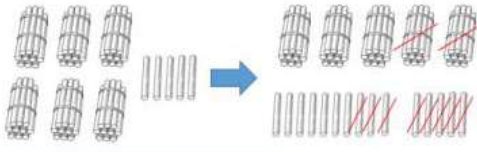
Skill: Add with up to 3 decimal places	Year: 5
<p data-bbox="502 526 869 582"><math>3.65 + 2.41 = 6.06</math></p>	<p data-bbox="1125 224 1380 504">Place value counters and plain counters on a place value grid are the most effective manipulatives when adding decimals with 1, 2 and then 3 decimal places.</p> <p data-bbox="1125 537 1380 851">Ensure children have experience of adding decimals with a variety of decimal places. This includes putting this into context when adding money and other measures.</p>

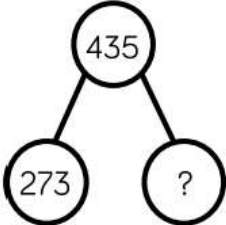
SUBTRACTION

Skill: Subtract 1-digit numbers within 10	Year: 1
	<p>Part-whole models, bar models, ten frames and number shapes support partitioning.</p> <p>Ten frames, number tracks, single bar models and bead strings support reduction.</p> <p>Cubes and bar models with two bars can support finding the difference.</p>

Skill: Subtract 1 and 2-digit numbers to 20	Year: 1/2
	<p>When subtracting one-digit numbers that cross 10, it is important to highlight the importance of ten ones equalling one ten.</p> <p>Children should be encouraged to find the number bond to 10 when partitioning the subtracted number. Ten frames, number shapes and number lines are particularly useful for this.</p>



Skill: Subtract 1 and 2-digit numbers to 100	Year: 2																			
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>65</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 40px; height: 20px; text-align: center;">?</td> <td style="width: 40px; height: 20px; text-align: center;">28</td> </tr> </table> </div> <div style="text-align: center;">  <p>28    30    60    65</p> </div> <div style="text-align: center;">  </div> </div> <div style="text-align: center; margin-top: 10px;"> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;"><b>65 - 28 = 37</b></td> </tr> </table> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <table border="1" style="font-size: small;"> <thead> <tr style="background-color: #f2f2f2;"> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">     </td> <td style="text-align: center;">     </td> </tr> <tr> <td style="text-align: center;"><del>     </del></td> <td style="text-align: center;"><del>     </del></td> </tr> <tr> <td style="text-align: center;">     </td> <td style="text-align: center;">     </td> </tr> </tbody> </table> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 5 \ 1 \\ 65 \\ - 28 \\ \hline 37 \end{array}</math> </div> <div style="text-align: center;"> <table border="1" style="font-size: small;"> <thead> <tr style="background-color: #f2f2f2;"> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">●●●●</td> <td style="text-align: center;">●●●●</td> </tr> <tr> <td style="text-align: center;"><del>●●●●</del></td> <td style="text-align: center;"><del>●●●●</del></td> </tr> <tr> <td style="text-align: center;">●●●●</td> <td style="text-align: center;">●●●●</td> </tr> </tbody> </table> </div> </div>	?	28	<b>65 - 28 = 37</b>	Tens	Ones			<del>     </del>	<del>     </del>			Tens	Ones	●●●●	●●●●	<del>●●●●</del>	<del>●●●●</del>	●●●●	●●●●	<p>At this stage, encourage children to use the formal column method when calculating alongside straws, base 10 or place value counters. As numbers become larger, straws become less efficient.</p> <p>Children can also use a blank number line to count on to find the difference. Encourage them to jump to multiples of 10 to become more efficient.</p>
?	28																			
<b>65 - 28 = 37</b>																				
Tens	Ones																			
<del>     </del>	<del>     </del>																			
Tens	Ones																			
●●●●	●●●●																			
<del>●●●●</del>	<del>●●●●</del>																			
●●●●	●●●●																			

Skill: Subtract numbers with up to 3 digits	Year: 3																														
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>435</p> </div> <div style="text-align: center;"> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 60px; height: 20px; text-align: center;">273</td> <td style="width: 60px; height: 20px; text-align: center;">?</td> </tr> </table> </div> <div style="text-align: center;"> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 60px; height: 20px; text-align: center;">435</td> </tr> <tr> <td style="width: 60px; height: 20px; text-align: center;">273</td> </tr> <tr> <td style="width: 60px; height: 20px; text-align: center;">← ?</td> </tr> </table> </div> </div> <div style="text-align: center; margin-top: 20px;"> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;"><b>435 - 273 = 262</b></td> </tr> </table> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <table border="1" style="font-size: small;"> <thead> <tr style="background-color: #f2f2f2;"> <th>Hundreds</th> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">■ ■</td> <td style="text-align: center;">     </td> <td style="text-align: center;">● ● ●</td> </tr> <tr> <td style="text-align: center;"><del>■ ■</del></td> <td style="text-align: center;"><del>     </del></td> <td style="text-align: center;"><del>● ● ●</del></td> </tr> <tr> <td style="text-align: center;">■ ■</td> <td style="text-align: center;">     </td> <td style="text-align: center;">● ● ●</td> </tr> </tbody> </table> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 3 \ 1 \\ 435 \\ - 273 \\ \hline 262 \end{array}</math> </div> <div style="text-align: center;"> <table border="1" style="font-size: small;"> <thead> <tr style="background-color: #f2f2f2;"> <th>Hundreds</th> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">●●●●</td> <td style="text-align: center;">●●●●</td> <td style="text-align: center;">●●●●</td> </tr> <tr> <td style="text-align: center;"><del>●●●●</del></td> <td style="text-align: center;"><del>●●●●</del></td> <td style="text-align: center;"><del>●●●●</del></td> </tr> <tr> <td style="text-align: center;">●●●●</td> <td style="text-align: center;">●●●●</td> <td style="text-align: center;">●●●●</td> </tr> </tbody> </table> </div> </div>	273	?	435	273	← ?	<b>435 - 273 = 262</b>	Hundreds	Tens	Ones	■ ■		● ● ●	<del>■ ■</del>	<del>     </del>	<del>● ● ●</del>	■ ■		● ● ●	Hundreds	Tens	Ones	●●●●	●●●●	●●●●	<del>●●●●</del>	<del>●●●●</del>	<del>●●●●</del>	●●●●	●●●●	●●●●	<p>Base 10 and place value counters are the most effective manipulative when subtracting numbers with up to 3 digits.</p> <p>Ensure children write out their calculation alongside any concrete resources so they can see the links to the written column method.</p> <p>Plain counters on a place value grid can also be used to support learning.</p>
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Skill: Subtract numbers with up to 4 digits	Year: 4																
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 4,357 \\ \underline{- 2,735} \\ 1,622 \end{array}</math> </div> </div> <div style="text-align: center; margin-top: 10px;"> <math display="block">4,357 - 2,735 = 1,622</math> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>Thousands</th><th>Hundreds</th><th>Tens</th><th>Ones</th></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>Thousands</th><th>Hundreds</th><th>Tens</th><th>Ones</th></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> </div>	Thousands	Hundreds	Tens	Ones					Thousands	Hundreds	Tens	Ones					<p>Base 10 and place value counters are the most effective manipulatives when subtracting numbers with up to 4 digits.</p> <p>Ensure children write out their calculation alongside any concrete resources so they can see the links to the written column method.</p> <p>Plain counters on a place value grid can also be used to support learning.</p>
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Skill: Subtract numbers with more than 4 digits	Year: 5/6																																				
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 294,382 \\ \underline{- 182,501} \\ 111,881 \end{array}</math> </div> </div> <div style="text-align: center; margin-top: 10px;"> <math display="block">294,382 - 182,501 = 111,881</math> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>HTh</th><th>TTh</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td></td><td>2</td><td>9</td><td><del>3</del></td><td><del>1</del></td><td>3</td><td>8</td><td>2</td></tr> <tr><td>-</td><td>1</td><td>8</td><td>2</td><td>5</td><td>0</td><td>1</td><td></td></tr> <tr><td></td><td>1</td><td>1</td><td>1</td><td>8</td><td>8</td><td>1</td><td></td></tr> </table> </div>	HTh	TTh	Th	H	T	O								2	9	<del>3</del>	<del>1</del>	3	8	2	-	1	8	2	5	0	1			1	1	1	8	8	1		<p>Place value counters or plain counters on a place value grid are the most effective concrete resource when subtracting numbers with more than 4 digits.</p> <p>At this stage, children should be encouraged to work in the abstract, using column method to subtract larger numbers efficiently.</p>
HTh	TTh	Th	H	T	O																																
	2	9	<del>3</del>	<del>1</del>	3	8	2																														
-	1	8	2	5	0	1																															
	1	1	1	8	8	1																															

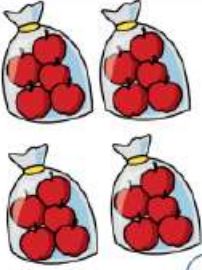

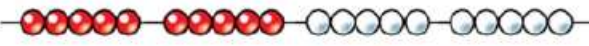
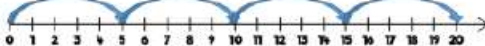
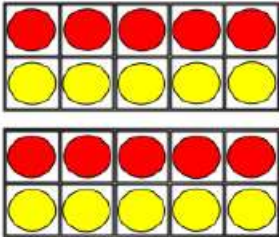
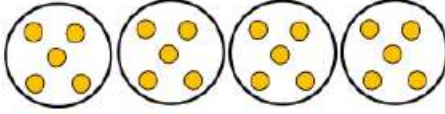
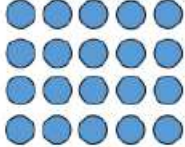
Skill: Subtract with up to 3 decimal places	Year: 5												
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 5.43 \\ - 2.7 \\ \hline 2.73 \end{array}</math> </div> </div> <div style="margin-top: 10px;"> <div style="display: flex; justify-content: center; gap: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 80px; text-align: center;">2.7</div> <div style="border: 1px solid black; padding: 5px; width: 80px; text-align: center;">?</div> </div> <div style="border: 1px solid black; padding: 5px; width: 150px; text-align: center; margin: 5px auto;">5.43</div> <div style="display: flex; justify-content: center; gap: 20px; margin: 5px auto;"> <div style="border: 1px solid black; padding: 5px; width: 80px; text-align: center;">2.7</div> <div style="font-size: 2em;">←</div> <div style="border: 1px solid black; padding: 5px; width: 80px; text-align: center;">?</div> </div> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 10px auto; text-align: center;"> <math>5.43 - 2.7 = 2.73</math> </div> </div> <div style="margin-top: 10px;"> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #f4b084;"> <th style="width: 33%;">Ones</th> <th style="width: 33%;">Tenths</th> <th style="width: 33%;">Hundredths</th> </tr> </thead> <tbody> <tr> <td> <div style="display: flex; justify-content: space-around;"> <span>1</span><span>1</span><span>1</span><span>1</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>1</span> </div> </td> <td> <div style="display: flex; justify-content: space-around;"> <span>0.1</span><span>0.1</span><span>0.1</span><span>0.1</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>0.1</span><span>0.1</span><span>0.1</span><span>0.1</span> </div> <div style="display: flex; justify-content: space-around; 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This includes putting this into context when subtracting money and other measures.</p>
Ones	Tenths	Hundredths											
<div style="display: flex; justify-content: space-around;"> <span>1</span><span>1</span><span>1</span><span>1</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>1</span> </div>	<div style="display: flex; justify-content: space-around;"> <span>0.1</span><span>0.1</span><span>0.1</span><span>0.1</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>0.1</span><span>0.1</span><span>0.1</span><span>0.1</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>0.1</span><span>0.1</span> </div>	<div style="display: flex; justify-content: space-around;"> <span>0.01</span><span>0.01</span><span>0.01</span> </div>											
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## MULTIPLICATION

Skill	Year	Representations and models
Recall and use multiplication and division facts for the 2-times table	2	Bar model Number shapes Counters Money Ten frames Bead strings Number lines Everyday objects
Recall and use multiplication and division facts for the 5-times table	2	Bar model Number shapes Counters Money Ten frames Bead strings Number lines Everyday objects
Recall and use multiplication and division facts for the 10-times table	2	Hundred square Number shapes Counters Money Ten frames Bead strings Number lines Base 10

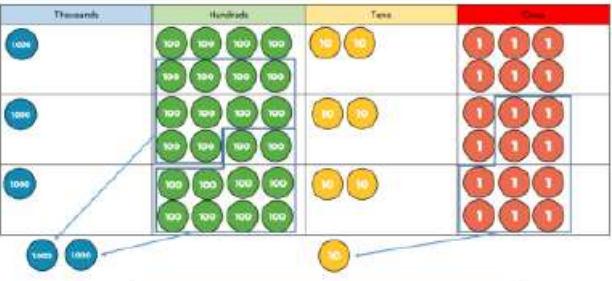
Skill	Year	Representations and models
Recall and use multiplication and division facts for the 3-times table	3	Hundred square Number shapes Counters Bead strings Number lines Everyday objects
Recall and use multiplication and division facts for the 4-times table	3	Hundred square Number shapes Counters Bead strings Number lines Everyday objects
Recall and use multiplication and division facts for the 8-times table	3	Hundred square Number shapes Bead strings Number tracks Everyday objects
Recall and use multiplication and division facts for the 6-times table	4	Hundred square Number shapes Bead strings Number tracks Everyday objects

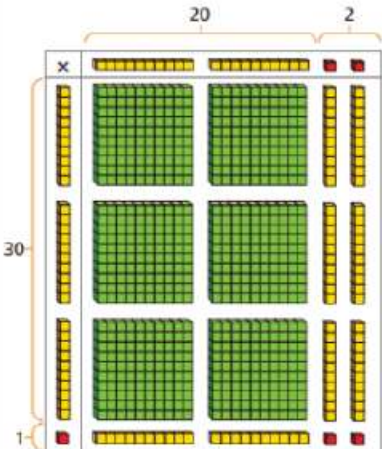
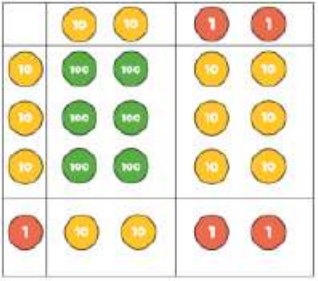
Skill	Year	Representations and models
Recall and use multiplication and division facts for the 7-times table	4	Hundred square Number shapes Bead strings Number lines
Recall and use multiplication and division facts for the 9-times table	4	Hundred square Number shapes Bead strings Number lines
Recall and use multiplication and division facts for the 11-times table	4	Hundred square Base 10 Place value counters Number lines
Recall and use multiplication and division facts for the 12-times table	4	Hundred square Base 10 Place value counters Number lines

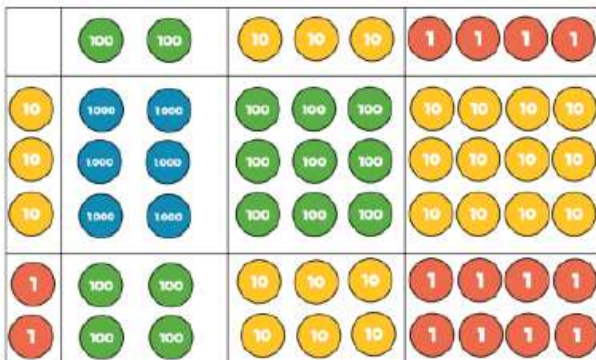
Skill: Solve 1-step problems using multiplication	Year: 1/2
    <p>One bag holds 5 apples. How many apples do 4 bags hold?</p>    <p> <math>5 + 5 + 5 + 5 = 20</math>  <math>4 \times 5 = 20</math>  <math>5 \times 4 = 20</math> </p>	<p>Children represent multiplication as repeated addition in many different ways.</p> <p>In Year 1, children use concrete and pictorial representations to solve problems. They are not expected to record multiplication formally.</p> <p>In Year 2, children are introduced to the multiplication symbol.</p>

Skill: Multiply 2-digit numbers by 1-digit numbers	Year: 3/4																																							
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> </div> <div style="width: 45%;"> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <tr><th>H</th><th>T</th><th>O</th><th></th></tr> <tr><td></td><td>3</td><td>4</td><td></td></tr> <tr><td>x</td><td></td><td>5</td><td></td></tr> <tr><td colspan="2" style="border-top: 1px solid black;"></td><td>20</td><td>(5 x 4)</td></tr> <tr><td>+</td><td>15</td><td>0</td><td>(5 x 30)</td></tr> <tr><td colspan="2" style="border-top: 1px solid black;">17</td><td>0</td><td></td></tr> </table> </div> </div> <div style="text-align: center; margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;"> <math>34 \times 5 = 170</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>H</th><th>T</th><th>O</th></tr> <tr><td></td><td>3</td><td>4</td></tr> <tr><td>x</td><td></td><td>5</td></tr> <tr><td colspan="2" style="border-top: 1px solid black;">17</td><td>0</td></tr> <tr><td>1</td><td>2</td><td></td></tr> </table> </div>	H	T	O			3	4		x		5				20	(5 x 4)	+	15	0	(5 x 30)	17		0		H	T	O		3	4	x		5	17		0	1	2		<p>Teachers may decide to first look at the expanded column method before moving on to the short multiplication method.</p> <p>The place value counters should be used to support the understanding of the method rather than supporting the multiplication, as children should use times table knowledge.</p>
H	T	O																																						
	3	4																																						
x		5																																						
		20	(5 x 4)																																					
+	15	0	(5 x 30)																																					
17		0																																						
H	T	O																																						
	3	4																																						
x		5																																						
17		0																																						
1	2																																							

Skill: Multiply 3-digit numbers by 1-digit numbers	Year: 3/4																																						
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> </div> <div style="width: 45%;"> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <tr><th>H</th><th>T</th><th>O</th><th></th></tr> <tr><td></td><td>2</td><td>4</td><td>5</td></tr> <tr><td>x</td><td></td><td></td><td>4</td></tr> <tr><td colspan="2" style="border-top: 1px solid black;">9</td><td>8</td><td>0</td></tr> <tr><td>1</td><td>2</td><td></td><td></td></tr> </table> </div> </div> <div style="text-align: center; margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;"> <math>245 \times 4 = 980</math> </div> </div> <div style="text-align: center; margin-top: 10px;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>Hundreds</th><th>Tens</th><th>Ones</th></tr> <tr><td>100 100</td><td>30 30 30 30</td><td>1 1 1 1 1</td></tr> <tr><td>100 100</td><td>30 30 30 30</td><td>1 1 1 1 1</td></tr> <tr><td>100 100</td><td>30 30 30 30</td><td>1 1 1 1 1</td></tr> <tr><td>100 100</td><td>30 30 30 30</td><td>1 1 1 1 1</td></tr> <tr><td>100</td><td>30 30</td><td></td></tr> </table> </div>	H	T	O			2	4	5	x			4	9		8	0	1	2			Hundreds	Tens	Ones	100 100	30 30 30 30	1 1 1 1 1	100 100	30 30 30 30	1 1 1 1 1	100 100	30 30 30 30	1 1 1 1 1	100 100	30 30 30 30	1 1 1 1 1	100	30 30		<p>When moving to 3-digit by 1-digit multiplication, encourage children to move towards the short, formal written method.</p> <p>Base 10 and place value counters continue to support the understanding of the written method. Limit the number of exchanges needed in the questions and move children away from resources when multiplying larger numbers.</p>
H	T	O																																					
	2	4	5																																				
x			4																																				
9		8	0																																				
1	2																																						
Hundreds	Tens	Ones																																					
100 100	30 30 30 30	1 1 1 1 1																																					
100 100	30 30 30 30	1 1 1 1 1																																					
100 100	30 30 30 30	1 1 1 1 1																																					
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Skill: Multiply 4-digit numbers by 1-digit numbers	Year: 5																									
<div style="text-align: center;">  </div> <div style="text-align: center; margin-top: 10px;"> <table border="1" style="border-collapse: collapse; text-align: center; width: 150px; margin: 0 auto;"> <tr><td></td><td>Th</td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td>1</td><td>8</td><td>2</td><td>6</td></tr> <tr><td>x</td><td></td><td></td><td></td><td>3</td></tr> <tr style="border-top: 1px solid black;"><td></td><td>5</td><td>4</td><td>7</td><td>8</td></tr> <tr><td></td><td>2</td><td></td><td>1</td><td></td></tr> </table> </div>		Th	H	T	O		1	8	2	6	x				3		5	4	7	8		2		1		<p>When multiplying 4-digit numbers, place value counters are the best manipulative to use to support children in their understanding of the formal written method.</p> <p>If children are multiplying larger numbers and struggling with their times tables, encourage the use of multiplication grids so children can focus on the use of the written method.</p>
	Th	H	T	O																						
	1	8	2	6																						
x				3																						
	5	4	7	8																						
	2		1																							

Skill: Multiply 2-digit numbers by 2-digit numbers	Year: 5																													
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <div style="text-align: center; margin-top: 10px;"> <table border="1" style="border-collapse: collapse; text-align: center; width: 150px; margin: 0 auto;"> <tr><td>x</td><td>20</td><td>2</td></tr> <tr><td>30</td><td>600</td><td>60</td></tr> <tr><td>1</td><td>20</td><td>2</td></tr> </table> </div> <div style="text-align: center; margin-top: 10px;"> <table border="1" style="border-collapse: collapse; text-align: center; width: 100px; margin: 0 auto;"> <tr><td></td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td></td><td>2</td><td>2</td></tr> <tr><td>x</td><td></td><td>3</td><td>1</td></tr> <tr style="border-top: 1px solid black;"><td></td><td>6</td><td>6</td><td>0</td></tr> <tr><td></td><td>6</td><td>8</td><td>2</td></tr> </table> </div> <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"> <math>22 \times 31 = 682</math> </div> </div>	x	20	2	30	600	60	1	20	2		H	T	O			2	2	x		3	1		6	6	0		6	8	2	<p>When multiplying a multi-digit number by 2-digits, use the area model to help children understand the size of the numbers they are using. This links to finding the area of a rectangle by finding the space covered by the Base 10.</p> <p>The grid method matches the area model as an initial written method before moving on to the formal written multiplication method.</p>
x	20	2																												
30	600	60																												
1	20	2																												
	H	T	O																											
		2	2																											
x		3	1																											
	6	6	0																											
	6	8	2																											

Skill: Multiply 3-digit numbers by 2-digit numbers				Year: 5																												
	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>Th</td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td>2</td><td>3</td><td>4</td></tr> <tr><td>×</td><td></td><td>3</td><td>2</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td></td><td>4</td><td>6</td><td>8</td></tr> <tr><td><sub>1</sub>7</td><td><sub>1</sub>0</td><td>2</td><td>0</td></tr> <tr><td>7</td><td>4</td><td>8</td><td>8</td></tr> </table>			Th	H	T	O		2	3	4	×		3	2	<hr/>					4	6	8	<sub>1</sub> 7	<sub>1</sub> 0	2	0	7	4	8	8	<p>Children can continue to use the area model when multiplying 3-digits by 2-digits. Place value counters become more efficient to use but Base 10 can be used to highlight the size of numbers.</p> <p>Encourage children to move towards the formal written method, seeing the links with the grid method.</p>
Th	H	T	O																													
	2	3	4																													
×		3	2																													
<hr/>																																
	4	6	8																													
<sub>1</sub> 7	<sub>1</sub> 0	2	0																													
7	4	8	8																													
$234 \times 32 = 7,488$	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>×</td><td>200</td><td>30</td><td>4</td></tr> <tr><td>30</td><td>6,000</td><td>900</td><td>120</td></tr> <tr><td>2</td><td>400</td><td>60</td><td>8</td></tr> </table>			×	200	30	4	30	6,000	900	120	2	400	60	8																	
×	200	30	4																													
30	6,000	900	120																													
2	400	60	8																													

Skill: Multiply 4-digit numbers by 2-digit numbers					Year: 5/6																																			
<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>TTh</td><td>Th</td><td>H</td><td>T</td><td>O</td></tr> <tr><td></td><td>2</td><td>7</td><td>3</td><td>9</td></tr> <tr><td>×</td><td></td><td></td><td>2</td><td>8</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td><sub>2</sub>2</td><td><sub>5</sub>1</td><td><sub>3</sub>9</td><td><sub>7</sub>1</td><td>2</td></tr> <tr><td><sub>1</sub>5</td><td>4</td><td><sub>1</sub>7</td><td>8</td><td>0</td></tr> <tr><td>7</td><td>6</td><td>6</td><td>9</td><td>2</td></tr> </table>					TTh	Th	H	T	O		2	7	3	9	×			2	8	<hr/>					<sub>2</sub> 2	<sub>5</sub> 1	<sub>3</sub> 9	<sub>7</sub> 1	2	<sub>1</sub> 5	4	<sub>1</sub> 7	8	0	7	6	6	9	2	<p>When multiplying 4-digits by 2-digits, children should be confident in the written method.</p> <p>If they are still struggling with times tables, provide multiplication grids to support when they are focusing on the use of the method.</p> <p>Consider where exchanged digits are placed and make sure this is consistent.</p>
TTh	Th	H	T	O																																				
	2	7	3	9																																				
×			2	8																																				
<hr/>																																								
<sub>2</sub> 2	<sub>5</sub> 1	<sub>3</sub> 9	<sub>7</sub> 1	2																																				
<sub>1</sub> 5	4	<sub>1</sub> 7	8	0																																				
7	6	6	9	2																																				
$2,739 \times 28 = 76,692$																																								

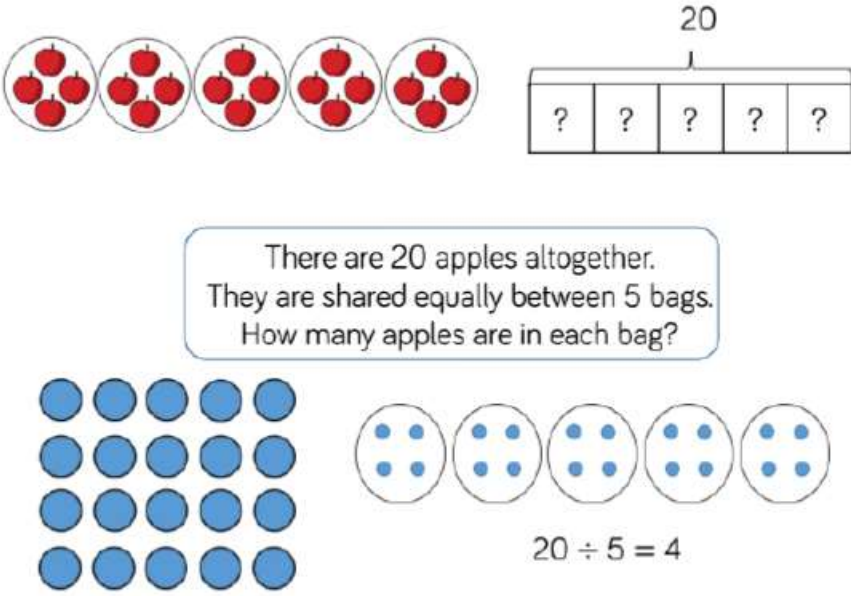


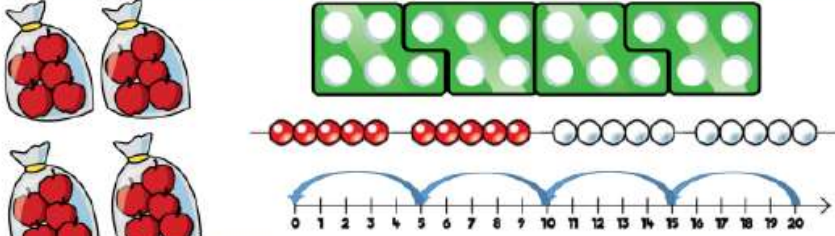
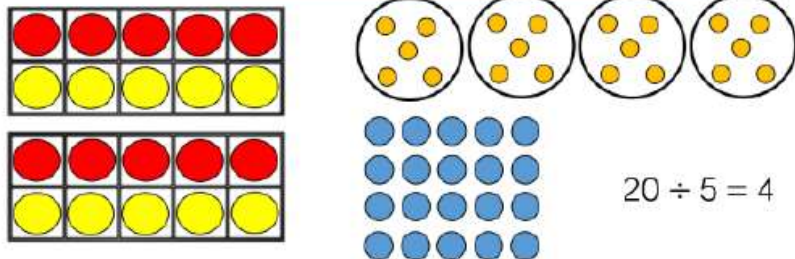
## DIVISION

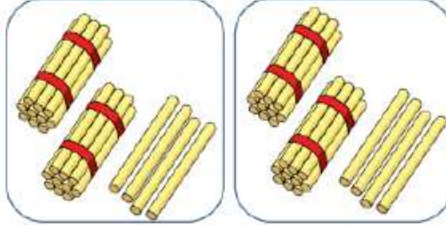
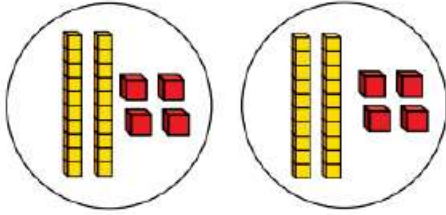
Our calculation policy for multiplication starts with a breakdown of times tables; what should be taught when and what that teaching should look like.


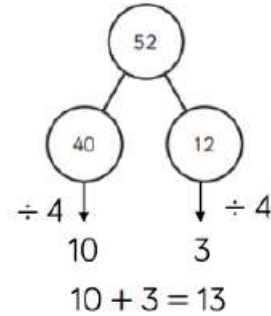

During the Summer Term, the children in Year 4 sit the Multiplication Tables Check in line with the Government's assessment framework.


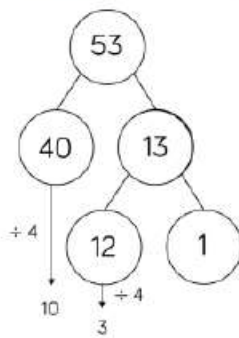

Times tables continue to be recalled and tested throughout Years 5 and 6.

Skill: Solve 1-step problems using multiplication (sharing)	Year: 1/2
 <p>There are 20 apples altogether. They are shared equally between 5 bags. How many apples are in each bag?</p> <p><math>20 \div 5 = 4</math></p>	<p>Children solve problems by sharing amounts into equal groups.</p> <p>In Year 1, children use concrete and pictorial representations to solve problems. They are not expected to record division formally.</p> <p>In Year 2, children are introduced to the division symbol.</p>

Skill: Solve 1-step problems using division (grouping)	Year: 1/2
 <p data-bbox="430 481 933 604">There are 20 apples altogether. They are put in bags of 5. How many bags are there?</p>  <p data-bbox="853 772 1013 817"><math>20 \div 5 = 4</math></p>	<p data-bbox="1125 235 1380 862">Children solve problems by grouping and counting the number of groups. Grouping encourages children to count in multiples and links to repeated subtraction on a number line. They can use concrete representations in fixed groups such as number shapes which helps to show the link between multiplication and division.</p>

Skill: Divide 2-digits by 1-digit (sharing with no exchange)	Year: 1/2						
<table border="1" data-bbox="255 1041 630 1198"> <thead> <tr> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td>10 10</td> <td>1 1 1 1</td> </tr> <tr> <td>10 10</td> <td>1 1 1 1</td> </tr> </tbody> </table>  <div data-bbox="526 1310 837 1377" style="border: 1px solid black; padding: 5px; display: inline-block;"> <math>48 \div 2 = 24</math> </div>  <div data-bbox="263 1310 478 1601"> <pre> graph TD     A((48)) --- B((40))     A --- C((8))     B -- "÷ 2" --&gt; D[ ]     C -- "÷ 2" --&gt; E[ ]             </pre> </div>	Tens	Ones	10 10	1 1 1 1	10 10	1 1 1 1	<p data-bbox="1125 1019 1380 1220">When dividing larger numbers, children can use manipulatives that allow them to partition into tens and ones.</p> <p data-bbox="1125 1243 1380 1422">Straws, Base 10 and place value counters can all be used to share numbers into equal groups.</p> <p data-bbox="1125 1444 1380 1657">Part-whole models can provide children with a clear written method that matches the concrete representation.</p>
Tens	Ones						
10 10	1 1 1 1						
10 10	1 1 1 1						

Skill: Divide 2-digits by 1-digit (sharing with exchange)	Year: 3/4																		
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="width: 50px;">Tens</th> <th style="width: 50px;">Ones</th> </tr> </thead> <tbody> <tr><td>●●●●●</td><td>●●●</td></tr> <tr><td>●●●●●</td><td>●●●</td></tr> <tr><td>●●●●●</td><td>●●●</td></tr> <tr><td>●●●●●</td><td>●●●</td></tr> </tbody> </table> </div> <div style="text-align: center;"> <p>52</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr><td colspan="4" style="border: none;">}</td></tr> <tr><td style="width: 25px;">?</td><td style="width: 25px;">?</td><td style="width: 25px;">?</td><td style="width: 25px;">?</td></tr> </table> </div> </div> <div style="text-align: center; margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"> <math>52 \div 4 = 13</math> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>	Tens	Ones	●●●●●	●●●	●●●●●	●●●	●●●●●	●●●	●●●●●	●●●	}				?	?	?	?	<p>When dividing numbers involving an exchange, children can use Base 10 and place value counters to exchange one ten for ten ones. Children should start with the equipment outside the place value grid before sharing the tens and ones equally between the rows.</p> <p>Flexible partitioning in a part-whole model supports this method.</p>
Tens	Ones																		
●●●●●	●●●																		
●●●●●	●●●																		
●●●●●	●●●																		
●●●●●	●●●																		
}																			
?	?	?	?																

Skill: Divide 2-digits by 1-digit (sharing with remainders)	Year: 3/4																				
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="width: 50px;">Tens</th> <th style="width: 50px;">Ones</th> </tr> </thead> <tbody> <tr><td>●●●●●</td><td>●●●</td></tr> <tr><td>●●●●●</td><td>●●●</td></tr> <tr><td>●●●●●</td><td>●●●</td></tr> <tr><td>●●●●●</td><td>●●●</td></tr> </tbody> </table> </div> <div style="text-align: center;"> <p>53</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr><td colspan="5" style="border: none;">}</td></tr> <tr><td style="width: 20px;">13</td><td style="width: 20px;">13</td><td style="width: 20px;">13</td><td style="width: 20px;">13</td><td style="width: 20px;">1</td></tr> </table> </div> </div> <div style="text-align: center; margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"> <math>53 \div 4 = 13 \text{ r}1</math> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>	Tens	Ones	●●●●●	●●●	●●●●●	●●●	●●●●●	●●●	●●●●●	●●●	}					13	13	13	13	1	<p>When dividing numbers with remainders, children can use Base 10 and place value counters to exchange one ten for ten ones. Starting with the equipment outside the place value grid will highlight remainders, as they will be left outside the grid once the equal groups have been made.</p> <p>Flexible partitioning in a part-whole model supports this method.</p>
Tens	Ones																				
●●●●●	●●●																				
●●●●●	●●●																				
●●●●●	●●●																				
●●●●●	●●●																				
}																					
13	13	13	13	1																	

Skill: Divide 2-digits by 1-digit (grouping)	Year: 4/5																								
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr style="background-color: #fff9c4;"> <th style="padding: 2px;">Tens</th> <th style="background-color: #f44336; color: white; padding: 2px;">Ones</th> </tr> <tr> <td style="padding: 2px;"> <div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; background-color: #ffc107; margin: 2px;"></div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; background-color: #ffc107; margin: 2px;"></div> </div> </td> <td style="padding: 2px;"> <div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; background-color: #f44336; margin: 2px;"></div> <div style="border: 1px solid black; 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Starting with the largest place value, they group by the divisor.</p> <p>Language is important here. Children should consider 'How many groups of 4 tens can we make?' and 'How many groups of 4 ones can we make?'</p> <p>Remainders can also be seen as they are left ungrouped.</p>
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Skill: Divide 3-digits by 1-digit (sharing)	Year: 4															
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 5px; border-radius: 10px;"> <math>844 \div 4 = 211</math> </div> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th style="padding: 2px;">H</th><th style="padding: 2px;">T</th><th style="padding: 2px;">O</th></tr> <tr><td style="padding: 2px;"> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 50%; width: 15px; height: 15px; background-color: #27ae60; margin: 2px;"></div> <div style="border: 1px solid black; border-radius: 50%; width: 15px; height: 15px; background-color: #27ae60; margin: 2px;"></div> </div> </td><td style="padding: 2px;"> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 50%; width: 15px; height: 15px; background-color: #ffc107; margin: 2px;"></div> <div style="border: 1px solid black; 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Children should start with the equipment outside the place value grid before sharing the hundreds, tens and ones equally between the rows. This method can also help to highlight remainders. Flexible partitioning in a part-whole model supports this method.</p>
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Skill: Divide 3-digits by 1-digit (grouping)	Year: 5																																														
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Th	H	T	O																																				
1,000 1,000	100 100	10 10	1 1																																				
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Skill: Divide multi digits by 2-digits (short division)		Year: 6										
<table border="1" style="margin: auto;"> <tr><td></td><td></td><td>0</td><td>3</td><td>6</td></tr> <tr><td></td><td>12</td><td>4</td><td><sup>4</sup>3</td><td><sup>7</sup>2</td></tr> </table>			0	3	6		12	4	<sup>4</sup> 3	<sup>7</sup> 2	<div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"> <math>432 \div 12 = 36</math> </div>	<p>When children begin to divide up to 4-digits by 2-digits, written methods become the most accurate as concrete and pictorial representations become less effective. Children can write out multiples to support their calculations with larger remainders. Children will also solve problems with remainders where the quotient can be rounded as appropriate.</p>
		0	3	6								
	12	4	<sup>4</sup> 3	<sup>7</sup> 2								
<div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;"> <math>7,335 \div 15 = 489</math> </div>	<table border="1" style="margin: auto;"> <tr><td></td><td>0</td><td>4</td><td>8</td><td>9</td></tr> <tr><td>15</td><td>7</td><td><sup>7</sup>3</td><td><sup>13</sup>3</td><td><sup>13</sup>5</td></tr> </table>		0	4	8	9	15	7	<sup>7</sup> 3	<sup>13</sup> 3	<sup>13</sup> 5	
	0	4	8	9								
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<table border="1" style="margin: auto;"> <tr> <td>15</td><td>30</td><td>45</td><td>60</td><td>75</td><td>90</td><td>105</td><td>120</td><td>135</td><td>150</td> </tr> </table>		15	30	45	60	75	90	105	120	135	150	
15	30	45	60	75	90	105	120	135	150			

Skill: Divide multi-digits by 2-digits (long division)		Year: 6																																													
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			2	4	r	1	2																																										
1	5	3	7	2																																													
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