## Times Tables

| 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 <br> multiplication and <br> division facts for the <br> 3-times table | 3 | Hundred square <br> Number shapes <br> Counters | Bead strings <br> Number lines <br> Everyday objects |
| Recall and use <br> multiplication and <br> division facts for the <br> 4-times table | 3 | Hundred square <br> Number shapes <br> Counters | Bead strings <br> Number lines <br> Everyday objects |
| Recall and use <br> multiplication and <br> division facts for the <br> 8-times table | 3 | Hundred square <br> Number shapes | Bead strings <br> Number tracks <br> Everyday objects |
| Recall and use <br> multiplication and <br> division facts for the <br> 6-times table | 4 | Hundred square <br> Number shapes | Bead strings <br> Everyday objects |


| Skill | Year | Representations and models |  |
| :---: | :---: | :---: | :---: |
| $\begin{array}{c}\text { Recall and use } \\ \text { multiplication and } \\ \text { division facts for the } \\ \text { 7-times table }\end{array}$ | 4 | $\begin{array}{c}\text { Hundred square } \\ \text { Number shapes }\end{array}$ | $\begin{array}{c}\text { Bead strings } \\ \text { Number lines }\end{array}$ |
| $\begin{array}{c}\text { Recall and use } \\ \text { multiplication and } \\ \text { division facts for the } \\ \text { 9-times table }\end{array}$ | 4 | $\begin{array}{c}\text { Hundred square } \\ \text { Number shapes }\end{array}$ | $\begin{array}{c}\text { Bead strings } \\ \text { Number lines }\end{array}$ |
| $\begin{array}{c}\text { Recall and use } \\ \text { multiplication and } \\ \text { division facts for the } \\ \text { 11-times table }\end{array}$ | 4 | $\begin{array}{c}\text { Hundred square } \\ \text { Base 10 }\end{array}$ | Place value counters |
| Number lines |  |  |  |$]$| Recall and use |
| :---: |
| multiplication and <br> division facts for the <br> 12-times table |
| 4 |

## Skill: 2 times table

Year: 2


Encourage daily counting in multiples both forwards and backwards. This can be supported using a number line or a hundred square.

Look for patterns in the two times table, using concrete manipulatives to support. Notice how all the numbers are even and there is a pattern in the ones.

Use different models to develop fluency.

| Skill: 5 times table | Year: 2 |
| :---: | :---: |
|  <br> EMEMENBEM <br> -00000-00000-00000-00000- <br>  <br> 1 2 3 4 5 6 7 8 9 10 <br> 11 12 13 14 15 16 17 18 19 $(20)$ <br> 21 22 23 24 25 26 27 28 29 30 <br> 31 32 33 34 35 36 37 38 39 $(4)$ <br> 41 42 43 44 46 46 47 48 49 50 | Encourage daily counting in multiples both forwards and backwards. This can be supported using a number line or a hundred square. <br> Look for patterns in the five times table, using concrete manipulatives to support. Notice the pattern in the ones as well as highlighting the odd, even, odd, even pattern. |

## Skill: 10 times table

## Year: 2

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| 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 | $(0)$ |

Encourage daily counting in multiples both forwards and backwards. This can be supported using a number line or a hundred square.

Look for patterns in the ten times table, using concrete manipulatives to support. Notice the pattern in the digitsthe ones are always 0 , and the tens increase by 1 ten each time.



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| 8 | 16 | 24 | 32 | 40 |
| :---: | :---: | :---: | :---: | :---: |
| 48 | 56 | 64 | 72 | 80 |



Encourage daily counting in multiples, supported by a number line or a hundred square. Look for patterns in the eight times table, using manipulatives to support. Make links to the 4 times table, seeing how each multiple is double the fours. Notice the pattern in the ones within each group of five multiples.
Highlight that all the multiples are even using number shapes to support.

| Skill: 6 times table |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  | 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 | (3) |
|  |  |  |  |  | 31 | 32 | 33 | 34 | 35 | (3) | 37 | 38 | 39 | 40 |
|  |  |  |  |  | 41 | (42) | 43 | 44 | 45 | 46 | 47 | (48) | 49 | 50 |
|  |  |  |  |  | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | (6) |
| 6 | 12 | 18 | 24 | 30 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 36 | 42 | 48 | 54 | 60 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
|  |  |  |  |  | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 66 | 72 | 78 | 84 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

Year: 4
Encourage daily counting in multiples, supported by a number line or a hundred square. Look for patterns in the six times table, using manipulatives to support. Make links to the 3 times table, seeing how each multiple is double the threes. Notice the pattern in the ones within each group of five multiples.
Highlight that all the multiples are even using number shapes to support.

| Skill: 9 times table |  |  |  |  |  |  |  |  |  |  |  |  | Year: 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0000009000000000000 |  |  |  |  |  | 23 | 34 | 5 | 6 | 78 |  |  | Encourage daily counting in multiples both forwards and backwards. This can be supported using a number line or a hundred square. Look for patterns in the nine times table, using concrete manipulatives to support. Notice the pattern in the tens and ones using the hundred square to support as well as noting the odd, even pattern within the multiples. |
|  |  |  |  |  |  | 13 | 314 | 15 | 16 | 17 (12) |  |  |  |
|  |  |  |  |  |  | 22.23 | 2324 | 25 | 26 | (2) 28 | 2829 | 30 |  |
|  |  |  |  |  |  | 3233 | 3334 | 35 | (3) | 3738 | 3839 | 40 |  |
|  |  |  |  |  |  | 43 | 4344 | (4) | 46 | 47 | 4849 |  |  |
| 9 | 18 | 27 | 36 | 45 | 51 | 5253 | 3 (3) | 55 | 56 | 575 | 5859 | 90 |  |
| 54 | 63 | 72 | 81 | 90 | 61 | 62 63 | 3) 64 | 65 | 66 | 6768 | 5869 |  |  |
| -000000000-000000000-000000000- |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Skill | Year | Representations and models |  |
| :---: | :---: | :---: | :---: |
| Solve one-step <br> problems with <br> multiplication | $1 / 2$ | Bar model <br> Number shapes <br> Counters | Ten frames <br> Bead strings <br> Number lines |
| Multiply 2-digit by 1- <br> digit numbers | $3 / 4$ | Place value counters <br> Base 10 | Short written method <br> Expanded written method |
| Multiply 3-digit by 1- <br> digit numbers | 4 | Place value counters <br> Base 10 | Short written method |


| Skill | Year | Representations and models |  |
| :---: | :---: | :---: | :---: |
| Multiply 2-digit by 2- <br> digit numbers | 5 | Place value counters <br> Base 10 | Short written method <br> Grid method |
| Multiply 2-digit by 3- <br> digit numbers | 5 | Place value counters | Short written method <br> Grid method |
| Multiply 2-digit by 4- <br> digit numbers | $5 / 6$ | Formal written method |  |





| Skill: Multiply 4-digit numbers by 1-digit numbers |  |  |  |  | Year: 5 <br> When multiplying 4digit numbers, place value counters are the best manipulative to use to support children in their understanding of the formal written method. 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. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | ,478 <br> o <br> 6 <br> 3 <br> 8 |  |




| Skill: Multiply 4-digit numbers by 2-digit numbers |  |  |  |  | Year: 5/6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | When multiplying 4- |
| TTh | Th | H | T | O | children should be |
|  | 2 | 7 | 3 | 9 | written method. |
| $\times$ |  |  | 2 | 8 | If they are still struggling with times |
| $2^{2}$ | $5^{1}$ | $3^{9}$ | $7^{1}$ | 2 | multiplication grids to support when they |
| $1^{5}$ | 4 | 17 | 8 | 0 | are focusing on the use of the method. |
| 7 | 6 | 6 | 9 | 2 | Consider where |
|  |  | 1 |  |  | exchanged digits are placed and make |
| $2,739 \times 28=76,6$ |  |  |  |  | sure this is consistent |

