



## Counting and Times Tables A whole School Approach



<ul style="list-style-type: none"><li>• Explicit teaching</li><li>• Build a picture of what is happening through exploration</li><li>• Opportunity to make and visualise using concrete resources and pictorial representations</li></ul>	<ul style="list-style-type: none"><li>• Opportunity to practise</li><li>• Always practise in order</li><li>• Forwards and backwards</li><li>• Little and often</li><li>• Short bursts (up to 15 minutes)</li></ul>	<ul style="list-style-type: none"><li>• Developing number sense through deriving facts</li><li>• Opportunity to recall facts</li><li>• Always out of order</li><li>• Making links to other known facts</li></ul>	<ul style="list-style-type: none"><li>• Playing games to practise recall</li><li>• Timed challenges</li><li>• Apply in new contexts</li><li>• Assess understanding through tests/quizzes/TT RS etc</li></ul>
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Learn, rehearse and recall new times table/counting at the start of each half term – x 2 lessons.

Retrieval weekly to rehearse, recall and play/apply/assess

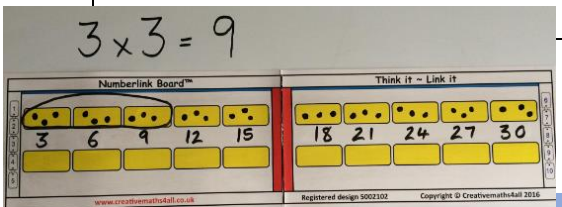


30-50 minutes

- Explicit teaching
- Build a picture of what is happening through exploration
- Opportunity to make and visualise concrete resources and pictorial representation

2 x beginning of each half term

<p style="text-align: center;">1</p> <p style="text-align: center;"><b>Concrete</b></p>	<p style="text-align: center;">2</p> <p style="text-align: center;"><b>Pictorial</b></p>	<p style="text-align: center;">3</p> <p style="text-align: center;"><b>Abstract</b></p>
<p style="text-align: center;"><b>Making the X tables</b></p> <ul style="list-style-type: none"> <li>• Array building with counters</li> <li>• Multilink</li> <li>• Numicon</li> <li>• Numberlink board</li> <li>• Number sentence alongside representations</li> </ul>	<p style="text-align: center;"><b>Drawing the x tables</b></p> <ul style="list-style-type: none"> <li>• Arrays</li> <li>• Bar models</li> <li>• Number line exploration to spot patterns</li> <li>• Repeated addition</li> <li>• Number sentence alongside representations</li> </ul>	<p style="text-align: center;"><b>Writing the X tables</b></p> <ul style="list-style-type: none"> <li>• Writing all the facts in order</li> <li>• Encourage pupils to create stories or scenarios that illustrate multiparton concepts</li> </ul>



$1 \times 3 = 3$

Showing 1 group of 3 is worth 3



$4 \times 3 = 12$

Showing 4 groups of 3 is worth 12



$7 \times 3 = 21$

Showing 7 groups of 3 is worth 21

Children to articulate aloud at all stages.  
Use language of 4 groups of 3 for  $4 \times 3$



<b>Rehearse</b> 10-15 minutes	<b>Recall</b> 10-15 minutes	<b>Play, Apply, Assess</b> 10-15 minutes (twice weekly)
<ul style="list-style-type: none"> <li>• Opportunity to practice</li> <li>• Always practise in order</li> <li>• Forwards and backwards</li> <li>• Little and often</li> </ul>	<ul style="list-style-type: none"> <li>• Developing number sense through deriving facts</li> <li>• Opportunity to recall facts</li> <li>• Always out of order</li> <li>• Making links to other known facts</li> </ul>	<ul style="list-style-type: none"> <li>• Playing games to practise recall</li> <li>• Timed challenges</li> <li>• Apply in new contexts</li> <li>• Assess understanding through tests/quizzes/TTRS etc.</li> </ul>
<p style="text-align: center;"><b>Suggested Activities</b></p> <ul style="list-style-type: none"> <li>• Counting stick</li> <li>• Songs/rhymes/raps(Cover pop songs, Super Movers, Mr DeMaio)</li> <li>• Numberlink Boards</li> <li>• Physical/moving activities e.g. saying all the numbers then star jump on each multiple</li> <li>• Flashcards</li> <li>• Multiplication Bingo</li> </ul>	<p style="text-align: center;"><b>Suggested Activities</b></p> <ul style="list-style-type: none"> <li>• Missing number problems</li> <li>• Rapid recall sessions</li> <li>• Derivation boards</li> <li>• Number link (fill in the blanks)</li> <li>• I know...so I also know...</li> </ul>	<p style="text-align: center;"><b>Suggested Activities</b></p> <ul style="list-style-type: none"> <li>• Numberlink board battle ships</li> <li>• TTRS</li> <li>• Hit the Button</li> <li>• Written quizzes</li> <li>• Bingo</li> <li>• Rock, Paper, Times tables</li> <li>• Problem solving and applying across the curriculum</li> </ul>