

Year 1/2 - Multiplication	Solve 1-step problems using multiplication	
Concrete	Pictorial	Abstract
		One bag holds 5 apples. How many apples do 4 bags hold?
		5 + 5 + 5 + 5 = 20 $4 \times 5 = 20$ $5 \times 4 = 20$
Key skills and concepts	 When solving 1-step problems using multiplication: Children represent multiplication as repeated addition in many different ways In Year 1 use concrete & pictorial representations to solve problems. Children are not expected to record multiplication formally. In Year 2 children are introduced to the multiplication symbol 	



Year 3/4 - Multiplication	Multiply 2-digit numbe	rs by 1-digit numbers
Concrete	Pictorial	Abstract
Image: Constrained state stat	Image: state stat	$34 \times 5 = 170$
Key skills and concepts	 When multiplying 2-digit numbers by The expanded method can be us multiplication method Place value counters are used to method rather than the support should use their times table known 	sed before moving on to the short o support the understanding of the ang of multiplication, as children



Year 3/4 - Multiplication	Multiply 3-digit numbers by 1-digit numbers	
Concrete	Pictorial	Abstract
Image: Notest in the second	Hodeds Ters Ones Ters Ones Ters Ones On	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Key skills and concepts	 When multiplying 3-digit numbers by 1-digit numbers: When moving to 3-digit by 1-digt multiplication encourage children to move towards the short, formal written method. Base 10 & place value counters support the understanding of the written method. Limit the number of exchanges needed & move children away from using resources when multiplying larger numbers. 	



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Year 5 - Multiplication	Multiply 4-digit numbe	ers by 1-digit numbers
Concrete	Pictorial	Abstract
		Th H T O 1 8 2 6 × 3
ThHTO1826×54721	Alongside the use of concrete resources images and drawings of these resources are used.	$5 \ 4 \ 7 \ 8$ $2 \ 1$ 1,826 × 3 = 5,478
Key skills and concepts		nost effective manipulatives o support the understanding of the ting of multiplication, as children



Year 5 - Multiplication	Multiply 2-digit numbers by 2-digit numbers	
Concrete	Pictorial	Abstract
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Images Images	$ \begin{array}{ c c c c c c c c } \hline x & 20 & 2 \\ \hline 30 & 600 & 60 \\ \hline 1 & 20 & 2 \\ \hline 1 & 20 & 2 \\ \hline \end{array} \\ \hline \begin{array}{c} H & T & 0 \\ \hline 2 & 2 & 2 \\ \hline x & 3 & 1 \\ \hline 2 & 2 & 2 \\ \hline 6 & 6 & 0 \\ \hline 6 & 8 & 2 \\ \hline \end{array} \\ \hline \end{array} $
Key skills and concepts	 When multiplying 2-digit numbers by 2-digit numbers: 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. The grid method matches the area model as an initial written method before moving on to the formal written multiplication method. 	



Year 5 - Multiplication	Multiply 3-digit numbers by 2-digit numbers	
Concrete	Pictorial	Abstract
$\begin{array}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $	Alongside the use of concrete resources images and drawings of these resources are used.	$\begin{array}{ c c c c c c c c c c } \hline \times & 200 & 30 & 4 \\ \hline 30 & 6,000 & 900 & 120 \\ \hline 2 & 400 & 60 & 8 \end{array} \end{array} \begin{array}{c} 234 \times 32 = 7,488 \\ \hline 17 & 1 & 0 \\ \hline 2 & 3 & 4 \\ \hline 17 & 1 & 2 & 0 \\ \hline 7 & 4 & 8 & 8 \end{array}$
Key skills and concepts	highlight the size of numbers	5



Year 5/6 - Multiplication	Multiply 4-digit numbers by 2-digit numbers	
Concrete	Pictorial	Abstract
The calculation can be shown alongside the use of place value counters to link to previous learning.	Alongside the use of place value counters, images and drawings of these resources can be used to link to previous learning.	TTh Th H T O 2 7 3 9 x 2 7 3 9 x x 2 8 2^2 5^1 3^9 7^1 2^2 5^1 4^1 7^1 8^1 0^1 7^1 6^1 6^1 9^1 2^1 1 1 2^2 2^2 3^2
Key skills and concepts		5

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