



Number Knowledge Progression

Below are the objectives that we need to be focusing on in Number Knowledge sessions.

As you can see, they are predominantly linked to Number (counting) and Multiplication and Division (multiplication tables and related division facts). Although these are split into year groups, they are flexible and you need to be planning according to the children's needs. The progression map should give you an overview as to where the children have come from and their next steps.

	Year 3	Year 4	Year 5	Year 6
Counting	<ul style="list-style-type: none"> - Count from 0 in multiples of 4, 8, 50 and 100. - Find 10 or 100 more or less than a given number. 	<ul style="list-style-type: none"> - Count in multiples of 6, 7, 9, 25 and 1000. - Count backwards through zero to include negative numbers. 	<ul style="list-style-type: none"> - Count forwards or backwards in steps of powers of 10 for any given number up to 1000. - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. 	<ul style="list-style-type: none"> - Use negative numbers in context, and calculate intervals across zero.
Multiplication and Division	<ul style="list-style-type: none"> - Recap 2, 5 and 10 - Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 	<ul style="list-style-type: none"> - Recap 3, 4 and 8 - Recall multiplication and division facts for multiplication tables up to 12x12 (new learning: 6, 7, 9, 11 and 12). 	<ul style="list-style-type: none"> - Multiply and divide numbers mentally drawing upon known facts 	<ul style="list-style-type: none"> - Perform mental calculations, including with operations and large numbers
Properties of Numbers		<ul style="list-style-type: none"> - Recognise and use factor pairs and commutativity in mental calculations. 	<ul style="list-style-type: none"> - Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. - Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. - Establish whether a number up to 100 is prime and recall prime numbers up to 19. - Recognise and use square numbers and cube numbers, and the notation for these. 	<ul style="list-style-type: none"> - Identify common factors, common multiples and prime numbers. - <i>Use common factors to simplify fractions; use common multiples to express fractions in the same denominator.</i> - <i>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm cubed and cubic metres, and extending to other units such as mm and km.</i>