



Mathematical Fluency Progression Ladder



Below shows the expectations, according to the National Curriculum, for each year group. Due to the higher expectations of the new National Curriculum, you may find many of your children initially needing a lower year group's Key Instant Recall Facts (KIRF's).

KIRFs are labelled numerically. Children must progress in this order through the KIRFs and must have mastered the facts before moving on (must be able to recall instantly when asked as well as apply the knowledge).

<u>Year Group Expectation</u>		<u>Objective</u>
EYFS		Count objects reliably up to and beyond 10. Recognise numerals to 10. Say one more or one less than a number. Begin to use mathematical names for common 2D and 3D shapes. Use mathematical positional language to describe the position of an object (behind, next to) Order single digit numbers. Compare amounts using comparison language (more, less).
Year group	KIRFs	Objectives
Year 1	1	To know days of week and months of year.
	2	
	3	To know bonds for each number up to 6.
	4	To know bonds to 10.
	5	To know doubles and halves to 10.

	6	To tell the time to the nearest half hour. To know bonds for each number up to 10.
Year 2	7 8 9 10 11 12	To know bonds to 20. To know 2 x table and division facts. To know doubles and halves to 20. To know 10 x table and division facts. To tell the time to the nearest 5 minutes. To know 5 x table and division facts.
Year 3	13 14 15 16 17 18	To know bonds to every number to 20. To know 3 x table and division facts. To recall facts about time. To know 4 x table and division facts. To tell the time to the nearest minute. To know 8 x table and division facts.
Year 4	19 20 21 22 23 24	To know bonds to 100. To know 6 x table and division facts. To know 9 x table and division facts. To know 11 x table and division facts. To know 7 x table and division facts. To multiply and divide any single digit number by 10 and 100.
Year 5	25 26 27 28 29 30	To know decimal equivalents of fractions. To know decimal bonds to 1 and 10. To know all multiplication and division facts to 10 x 10. To know metric conversions. To know all prime numbers up to 20. To know all multiplication and division facts up to 12 x 12.
Year 6	31 32	To find factor pairs for numbers up to 100. To know square numbers to 12^2 and square

	33	roots.
	34	To identify common factors of pairs of numbers.
	35	To convert between fractions, decimals and percentages.
	36	To identify prime numbers to 50. To know Roman numerals.