Our Lady & St John's

Mental Maths Non-Negotiables Ladder

These targets should be worked on in each term. Any child who has gaps in their learning should be picked up by the precision teaching or through planning. Children should be extended in each strand through practical examples or different examples to embed knowledge if they are secure of the basic concept. We will pre-test in autumn and post-test in summer.

Term	Mental Maths Strand **Year Five**	Beginning (Initials)	Developing (numbers)	Secure (Initials)
Autumn	Use place value and number facts to add two or more friendly numbers including money and decimals (e.g. 3+4+8+6+7, 0.6+0.4+0.7)			
	Add and subtract decimal numbers which are near multiples of 1 or 10 including money (e.g £6.34-1.99 or £34.59-£19.95)			
	Count in 11's and 12's and learn the 11x and 12x table			
	Add to the next 10 from a decimal number (e.g 13.6 + 6.4 =20).			
	Know number bonds to 1 and to the next whole number			
	Consolidate multiplication and division facts for all times tables.			
Spring	Use doubling and halving as mental division/multi strategies (58 x 5 = half of 58 x 10)			
	Use knowledge of factors and multiples in multiplication e.g (43 x 6 is double 43 x 3 and 28 x 50 is half of 28 x 100 = 1400)			
	Identify all multiples and factors including finding all factor pairs.			
	Know 3x,4x,6x,8x table. Apply and extend			
	Know square numbers and square roots up to 144.			
	Recall prime numbers up to 19			
	Know the doubles and halves of all two digit numbers.			
	Know doubles and halves of: • All whole numbers to 100 • All multiples of 10 to 1000 • All multiples of 100 to 10000			

Look SMART
Work and Play SMART
Be SMART

Summer	Count up/down in thousands			
	Read Roman numerals to 1000.			
	Use knowledge of multiples and factors, test for divisibility for 2,3,5,9 and 10 e.g. (246 ÷ 6 = 123 ÷ 3)			
	Double and halve money by partitioning (Half of £75.40 = Half of £75 (37.50) plus half of 40p)			
	Know 7x and 9x table. Apply and extend			
	Know all pairs of factors of numbers up to 100			