

MATHS AT A GLANCE (Long term plan)



MATHEMATICS

INTENT — At Luddenden CE school we intend to give each child the self-confidence and resilience to reach their full potential by ensuring that they have the tools to calculate fluently, reason logically, problem solve and think in abstract ways. Our mathematics curriculum aims to ensure that all pupils:

- become confident, competent and independent mathematicians in arithmetic, reasoning and problem-solving
- develop children's ability to articulate, discuss and explain their thinking using appropriate mathematical vocabulary
- instil the mind-set in every child and staff member that everyone can do maths and to create 'mistake friendly' classrooms where children see mistakes as learning tools

We recognise the importance of mathematics in every aspect of daily life. We therefore make links to real life situations and develop skills needed to become life-long mathematicians. We deliver and inspiring and engaging mathematics curriculum which sparks curiosity and nurtures confidence in maths. Our core values in mathematics are endurance, respect, and courage.

IMPLEMENTATION - Arithmetic, problem-solving and reasoning skills are embedded in each topic the children study. These topics are revisited and developed throughout their time at school. We ensure all children practice and develop their recall of multiplication and division facts and practice methods and strategies for arithmetic, problem-solving and reasoning every day. We use White Rose, supplemented by other schemes or self-made resources, to enhance the planning and delivery of the mathematics curriculum. The curriculum is adapted and scaffolded to ensure that disadvantaged pupils (including those with SEND) engage and achieve well.

IMPACT – Regular monitoring and evaluation indicates children can talk enthusiastically about their learning and their enjoyment of mathematics. Children demonstrate a good level of competency in arithmetic and in the recall of multiplication and division facts - evident through end of term assessments. Regular learning walks highlight the high level of challenge for all ability groups that motivate and inspire all children to further their progress in maths. All these factors ensure we are able to achieve high standards, with achievement in line with or above national average.

	Autumn 1				Autumn 2				Spring 1				Spring 2				Summer 1				Summer 2			
Nursery	than same	plore build Patter vith – apes explo & repea jects	say e number	Begin to order number names	I see 1,2,3	Join in with repeats	Explore position & space	Show me 1,2,3	Move & label 1,2,3	Explore position & routes	Explore own 1 st patterns	Take & give 1,2,3	Match, tall, push & pull	Talk about dots	Compare & sort collections	Lead on own repeats	Start to puzzle	Making patterns together	Make games & actions	Show me 5	My own pattern	Stop at 1,2, 3,4,5	Match, sort, compare	
Reception	Getting to know you	SORT PATTORNS			1,2,3	,4,5	Shapes	Alive in	Measures Alive in 5 Mass, capacity, length, height, time		ooth OIO	owing 7,8	Rilliding 9 and 10		3D shapes	beyond		Manipulate compose and decompose	Sha Grou	-)	Make connections	
Year 1	Place Value				Addition Subtraction		Shape onsolidation (1 week)	Place	Place Value		dition raction	Place V	/alue Length Height		Mass Volume	Multiplication Fractic Position/Division (1 week)		irection	Place Value	Time /2 weeks		reeks)		
Year 2/3 Cycle A	Place Valu	e Value Addit Subtrac				Multi	plication	n Division		Statistics Shape, po		•	on and Fra		tions	IIMA		lass, capacity d temperature		Consolidation				
Year 2/3 Cycle B	Place Valu	Place Value Addit Subtrac				Multi	plication	Division Stat		tistics	Length and h istics Shape, po dire		sition and Fra		tions Time			Mass, capacity and temperature		Consolidation				
Year 4/5 Cycle A	Place Value		ldition traction	Multiplication		Division		Fractions				Decimals and percentages			tages	Money	Sh	ape	Time Converting Units		Perim	eter	Area	
Year 4/5 Cycle B	Place Valu	IE	Addition Subtraction		cation	n Division		Fractions				I	Decimals an	mals and percentages		Angles		Statis	Posit Direct		Nega numb		Volume	
Year 6	Place Value	· ·		-	Fractions		Units of Measure	Ratio Algebra		gebra	Decimals	Fraction Decim Percent	mals Perimeter,		Statistics		Shape Position and direction			Projects and investigations				