

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	More than fewer than, same	Explore & build with shapes & objects	Patterns - explore repeats	Hear & say number names	Begin to order number names	l see 1,2,3	Join in with repeats	Explore position & space		Move & label 1,2,3	Explore position & routes		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 Match Measure Sort Patterns Compare				It's me 1,2,3	1,2,3,	4,5	Shapes A		5 Mass,	Measures Mass, capacity, length, height, time		owing Building 9 and 10		d 10	3D shapes	To 20 and beyond How many now?		Manipulate compose and decompose	Sha Grou	_	sualise, bu and map	Malise, build conne nd map		
Year 1	Place Value					Addition Subtraction		Shape nsolidation (1 week)	Place '	Value	e Addition Subtraction		Place Val	lue Leng Heig		Mass Volume	· · · · · · · · · · · · · · · · · · ·		Fractions Position/Direction (1 week)		Place Value	Money (1 week) Time (2 weeks) Consolidation (1 week)		veeks)	
Year 2/3 Cycle A	Place Value			Addit Subtra			Multip	olication	Division				neight (1 wee osition and ection			tions	Time	Time Mass, capacity and temperature		Consolidation					
Year 2/3 Cycle B	Place Value			Addit Subtra			Multip	olication	Division		tistics	Shape, po	neight (1 wee osition and ection			tions	Time		Mass, capacity and temperature		Consolidation				
Year 4/5 Cycle A	Place	Place Value		ction	Multiplication		Division		Fractions				ecimals and	mals and percentages		Money	Shape		Гime	Convertin Units	g Perime	eter	Area		
Year 4/5 Cycle B	Place Value		Addit Subtra		Multiplication		Division		Fractions				De	ecimals and	mals and percentages		Angles		Statis	Statistics		& Negat numb		Volume	
Year 6	Place Addition, subtraction Value multiplication and div				Fractions		ons	Units of Ratio		Alg	gebra	Decimals	Fraction Decima Percentag	ls Perim	eter,	Statistics	Shape Position and direction		ection	Projects and investigations					