

Mathematics At Fawkham CEP School



INTENT:

At Fawkham, we provide a creative and highly inter-connected maths curriculum through the use of White Rose Maths (WRM).

We have chosen to use WRM as it embeds challenge and mastery for all children within all lessons. Mixed age planning is embedded within the scheme which ensures thorough coverage for our mixed age classes. All lessons provide challenge for all children at all levels to ensure that mastery is achieved by all.

Here at Fawkham, manipulatives are used at every opportunity both to teach the concept and prove answers through reasoning because our children can find it difficult to explain their understanding of concepts due to the fact that historically they have learnt by rote, often influenced by parents supporting their children with homework.

At Fawkham, our exceptional mathematicians are exposed to the mathematical content of the higher year group within their class to ensure challenge. Our exceptional mathematicians within the higher year groups are further extended through challenge tasks and peer mentoring.

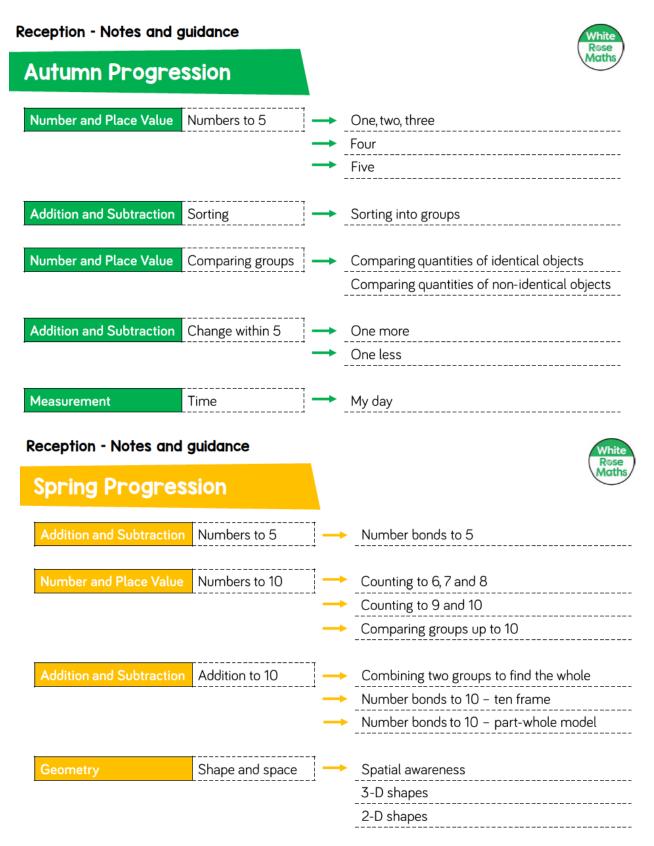
We have chosen to WRM as it ensures that place value is covered at the beginning of every year to secure the foundations of mathematics before moving on to number. This ensures that children have a good understanding of number before moving on to learn about measurement, statistics and geometry. This ensures that children can confidently apply their knowledge of number to answer questions about measurement, statistics and geometry. In addition, we have chosen to use WRM as it ensures that children explore each area of maths to a great depth and breadth as each topic is covered over several weeks to ensure mastery before moving on.

However, we ensure that maths at Fawkham is embedded into children's long-term memory by building opportunity to briefly revisit areas during starters or early morning work.

We make sure to implement a maths curriculum that is ambitious through its use of challenge within every lesson and that gives children the knowledge and cultural capital they need to succeed. We do this by ensuring maths is relevant and linked to children's everyday lives by making cross-curricular links where appropriate.

Despite following the WRM scheme, we do regularly adapt our plans to meet the needs of children through continuous of-the-moment formative assessments (perhaps by extending the amount of time focusing on an area of learning if it is not yet mastered, or moving children on sooner if necessary).

Dormice (R)



Reception - Notes and guidance



Summer Progre	ession			Widths
Geometry	Exploring patterns		imple patterns	
		Exploring	g more complex patterns	
Addition and Subtraction	Count on and back		y counting on	
		Taking av	way by counting back	
Number and Place Value	Numbers to 20	Counting	g to 20	
Multiplication and Division	Numerical patterns	→ Doubling		
		→ Halving a	and sharing	
			d evens	
Measurement	Measure	─► Length, h	eight and distance	
		→ Weight		
		→ Capacity		
			-	

Hedgehogs (1/2)

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value Y1 - Numbers to 20 Y2 - Numbers to 100			Number: Addition and Subtraction Year 1- Numbers within 20 (including recognisin money) Year 2- Numbers within 100 (including money)						50 and Multiplication		
Spring	Year 1: & conso	nber: Division blidation Division	Value Yea	Place to 100 r 2: stics	Measurement: Length and Height	(Year Co Year 2	Geometry 1: Shape onsolidati 2: Propert Shape	and on	Number: Year 1: Fractions and Consolidation Year 2: Fractions			Consolidation
Summer	Geometry: Position and Direction	Measur Tir	rement: me	solvin effic	olem Ig and cient hods	Year Year 2:	easureme 1: Weight Volume Mass, Ca Tempera	t and apacity	Consolidation and Investig		gations	

Badgers (3/4)

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value				N		ddition an action	nd	Number: Multiplication and Division			
Spring	Multip	nber: lication ivision	Len Perime	rement: gth, ter and rea	Number: Fractions				Y3: Measurement: Mass and Capacity Y4: Number: Decimals			Consolidation
Summer			rement: me			netry: Properties of Shape Cluding Y4 Position and Direction)		Consolidation				

Squirrels (5/6)

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn		r: Place lue	Number: Four Operations Number: Fractions										
Spring	ີ່ Number: Decimals		mals		umber: mals			Measurement: Perimeter, Area		Consolidation		Statistics	
Spi	and	Percenta	iges	Y6: Nu Alge	umber: ebra	Measur Conv Ur		olume		umber: tio	Stati	SIICS	
Summer	Proper	netry: rties of ape	Geometry: Position and Direction	Y6: \$	SATS	Investigations and Consolidation							

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Year R	Place Value (to 5) Addition and Subtr Measurement (time		Addition and Sub Place Value (to 10 Geometry (shape)	Geometry (patterns) Addition and subtraction Place Value (to 20) Multiplication and Division (double/half) Measurement (L, H, D, C, W) Consolidation		
Year 1/2	Place Value Numbers within 20/100 (including money) Addition and Subtraction	Numbers within 50/100 (including money) Addition and Subtraction Multiplication	Division Place Value (to 100) Statistics Measurement (L&H) Geometry (shape)	Geometry (properties of shapes) Fractions	Geometry (position and direction) Measurement (time) Problem solving	Measurement (weight, volume, mass, capacity, temperature) Consolidation and revision	
Year 3/4	Place Value Addition and Subtraction	Addition and Subtraction Multiplication and Division	Multiplication and Division Measurement (L,P,A) Fractions	Fractions Measurement (mass and capacity) Decimals	Decimals (including money) Measurement (time) Statistics	Geometry (properties of shape, position and direction) Consolidation	
Year 5/6	Place Value Four operations	Four operations Fractions Decimals and percentages	Decimals and percentages Algebra Measurement (converting)	Measurement (P, A, V) Ratio Statistics	Geometry (properties of shape, position and direction) Revision	Investigations and consolidation	