



## Hallaton Primary School – The Big Picture – Mathematics

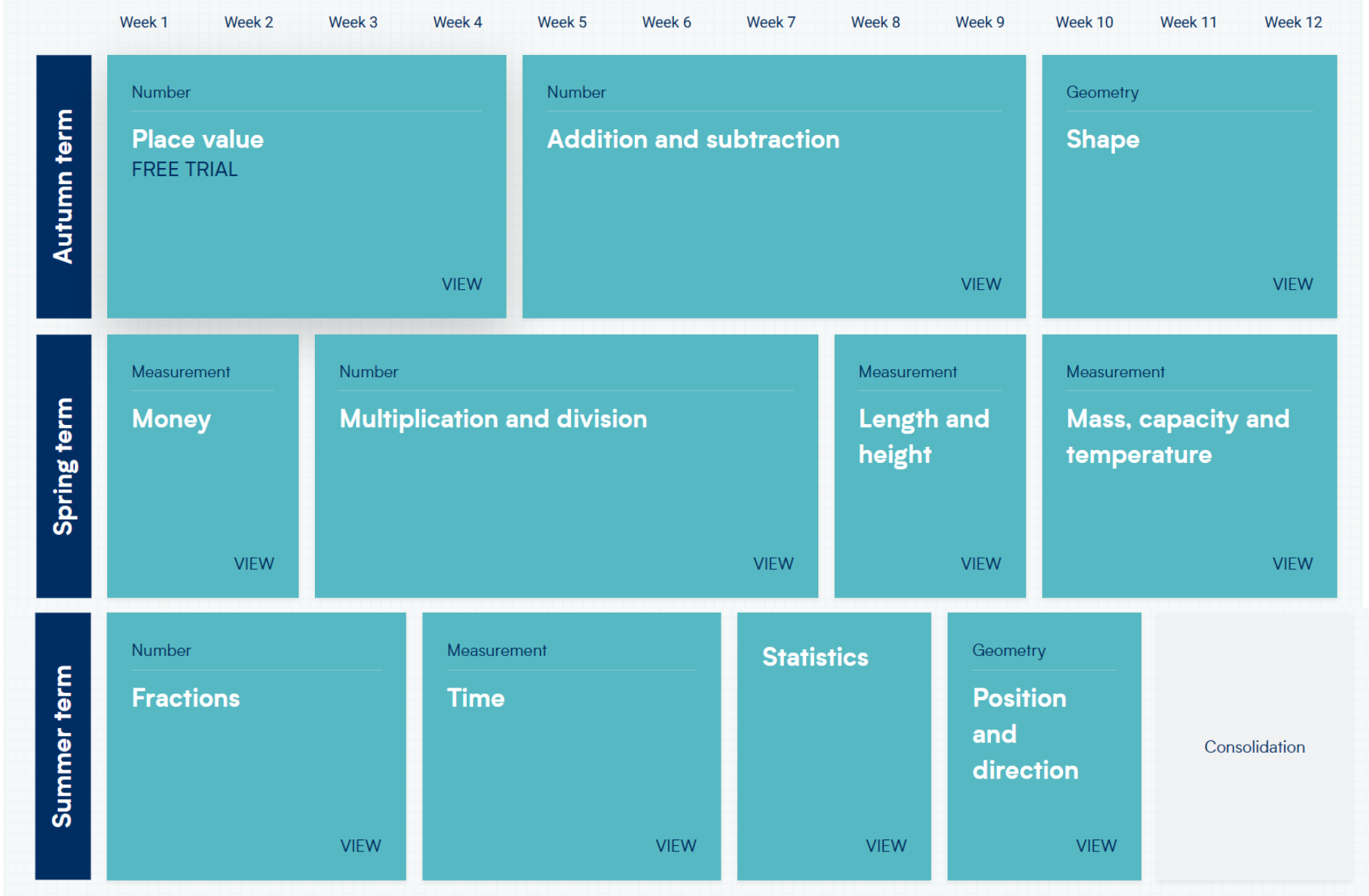
Our Over-arching Intent	That every child grows and flourishes through enjoying learning and has access to a rich, rounded, connected, coherent and progressive curriculum.				
Aims of our Curriculum	To develop successful, engaged learners who enjoy learning and who are knowledgeable and skilled, make progress and achieve		To develop confident, articulate individuals, who can lead safe, healthy and fulfilling lives in the communities in which they live now and in the future.		To develop responsible, happy citizens of the world who have the capacity to make positive contributions to society.
School Motto	Learn, Grow, Flourish				
Learning Powers	Be Responsible	Be Respectful	Be Resilient	Be Reflective	Be Remarkable
We will develop the knowledge and skills that children need to succeed	Develop children’s vocabulary acquisition and oracy skills so that they can articulate their thoughts both verbally and in written form, in order to communicate effectively in a range of situations.		Provide opportunities for children to be exposed to a wide variety of cultures, topics, themes and points of view to counter-balance the lack of diversity in our local demographic at our largely white British school, in order to prepare them for life in modern Britain.		
The Intrinsic Core of Maths – our Intent	Mathematics is an interconnected subject in which pupils need to be able to move between representations and ideas, therefore pupils should make rich connections across mathematical ideas as these are essential to everyday life.				
	To become fluent in the fundamentals of mathematics		To reason mathematically using mathematical language		To solve problems applying mathematical knowledge
How do we organise learning in Maths?					
Explore and Investigate Whole School Big Ideas	Number	Measurement	Statistics	Geometry	
	Place value Calculations (addition, subtraction, multiplication, division) Negative numbers Fractions Decimals Percentages Ratio Algebra	Length Height Mass Volume Capacity Temperature Time Money Perimeter Area Converting units	Pictograms Tally charts Tables Graphs Pie charts	Shape Position Direction	
Implementation: How do we deliver our Curriculum?					
Early Years	Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers. We use the White Rose small steps progression: <a href="#">Reception small steps Autumn.pdf (whiteroseeducation.com)</a> (although not always in the timeframe or order shown in the overviews). This provides frequent and varied opportunities to build and apply their understanding and develop vocabulary from which mastery of mathematics is built.				

Key Stage One	<p>The principal focus of mathematics teaching in Key Stage 1 is to ensure that pupils develop confidence and mental fluency with whole numbers, counting and place value. This should involve working with numerals, words and the four operations, including with practical resources. We use the White Rose Small Steps Progression: <a href="#">Year 1 Scheme of Learning Small Steps.pdf (whiteroseeducation.com)</a> <a href="#">Year 2 Scheme of Learning Small Steps.pdf (whiteroseeducation.com)</a> (although not always in the set timeframe or order shown in the overviews).</p>
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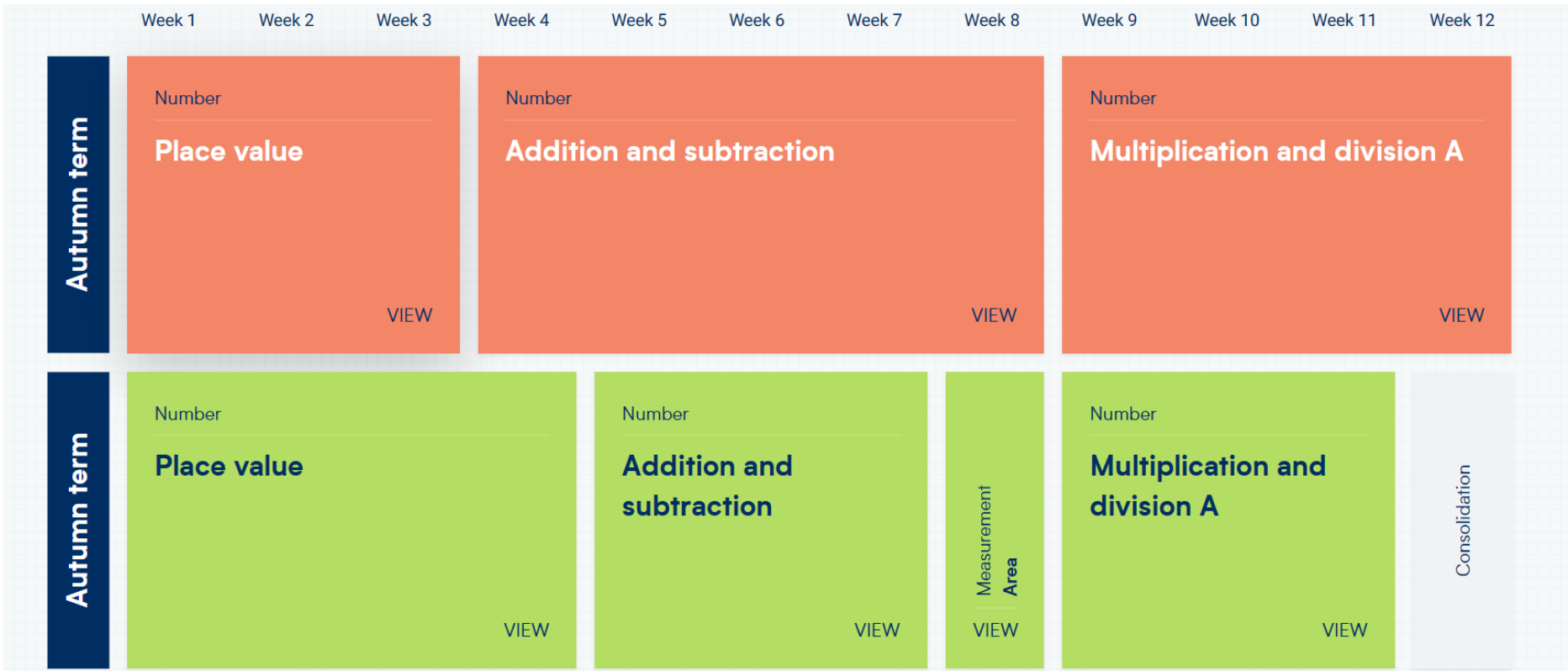
Year 2



Lower Key Stage Two

The principal focus of mathematics teaching in Lower Key Stage 2 is to ensure that pupils become increasingly fluent with whole numbers and the four operations, including number facts and the concept of place value. This should ensure that pupils develop efficient written and mental methods and perform calculations accurately with increasingly large whole numbers. Pupils should develop their ability to solve a range of problems, including with simple fractions and decimal place value. Teaching should also ensure that pupils draw with increasing accuracy and develop mathematical reasoning so they can analyse shapes and their properties, and confidently describe the relationships between them. It should ensure that they can use measuring instruments with accuracy and make connections between measure and number. We use the White Rose Small Steps Progression: [PowerPoint Presentation \(whiteroseeducation.com\)](#) (although not always in the set timeframe or order shown in the overviews).

Year 3 (orange) & 4 (green)



Upper Key Stage Two	Spring term	Number	Multiplication and division B	VIEW	Measurement	Length and perimeter	VIEW	Number	Fractions	VIEW	Measurement	Mass and capacity	VIEW						
		Number	Multiplication and division B	VIEW	Measurement	Length and perimeter	VIEW	Number	Fractions	VIEW	Number	Decimals	VIEW						
		Number	Fractions	VIEW	Measurement	Money	VIEW	Measurement	Time	VIEW	Geometry	Shape	VIEW	Statistics	VIEW	Consolidation			
		Number	Decimals	VIEW	Measurement	Money	VIEW	Measurement	Time	VIEW	Consolidation	Geometry	Shape	VIEW	Statistics	VIEW	Geometry	Position and direction	VIEW
	Summer term	Number	Fractions	VIEW	Measurement	Money	VIEW	Measurement	Time	VIEW	Geometry	Shape	VIEW	Statistics	VIEW	Consolidation			
		Number	Decimals	VIEW	Measurement	Money	VIEW	Measurement	Time	VIEW	Consolidation	Geometry	Shape	VIEW	Statistics	VIEW	Geometry	Position and direction	VIEW
		Number	Fractions	VIEW	Measurement	Money	VIEW	Measurement	Time	VIEW	Consolidation	Geometry	Shape	VIEW	Statistics	VIEW	Geometry	Position and direction	VIEW
		Number	Decimals	VIEW	Measurement	Money	VIEW	Measurement	Time	VIEW	Consolidation	Geometry	Shape	VIEW	Statistics	VIEW	Geometry	Position and direction	VIEW

The principal focus of mathematics teaching in Upper Key Stage 2 is to ensure that pupils extend their understanding of the number system and place value to include larger integers. This should develop the connections that pupils make between multiplication and division with fractions, decimals, percentages and ratio. Pupils should develop their ability to solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding efficient written and mental methods of calculation. With this foundation in arithmetic, pupils are introduced to the language of algebra as a means for solving a variety of problems. Teaching in geometry and measures should consolidate and extend knowledge developed in number. Teaching should also ensure that pupils classify shapes with increasingly complex geometric properties and that they learn the vocabulary they need to describe them. By the end of Year 6, pupils should be fluent in written methods for all four operations, including long multiplication and division, and in working with fractions, decimals and percentages. We use the White Rose Small Steps Progression: [PowerPoint Presentation \(whiteroseeducation.com\)](#) (although not always in the set timeframe or order shown in the overviews).

**Year 5 (purple) & 6 (blue)**

Autumn term	Number	Place value	VIEW	Number	Addition and subtraction	VIEW	Number	Multiplication and division A	VIEW	Number	Fractions A	VIEW	
	Number	Place value	VIEW	Number	Four operations	VIEW	Number	Fractions A	VIEW	Number	Fractions B	VIEW	Measurement Converting units

	Spring term	<div><div>Number</div><div>Multiplication and division B</div><div>VIEW</div></div>	<div><div>Number</div><div>Fractions B</div><div>VIEW</div></div>	<div><div>Number</div><div>Decimals and percentages</div><div>VIEW</div></div>	<div><div>Measurement</div><div>Perimeter and area</div><div>VIEW</div></div>	<div><div>Statistics</div><div>VIEW</div></div>	
	Spring term	<div><div>Number</div><div>Ratio</div><div>VIEW</div></div>	<div><div>Number</div><div>Algebra</div><div>VIEW</div></div>	<div><div>Number</div><div>Decimals</div><div>VIEW</div></div>	<div><div>Number</div><div>Fractions, decimals and percentages</div><div>VIEW</div></div>	<div><div>Measurement</div><div>Area, perimeter and volume</div><div>VIEW</div></div>	<div><div>Statistics</div><div>VIEW</div></div>
	Summer term	<div><div>Geometry</div><div>Shape</div><div>VIEW</div></div>	<div><div>Geometry</div><div>Position and direction</div><div>VIEW</div></div>	<div><div>Number</div><div>Decimals</div><div>VIEW</div></div>	<div><div>Number</div><div>Negative numbers</div><div>VIEW</div></div>	<div><div>Measurement</div><div>Converting units</div><div>VIEW</div></div>	<div><div>Measurement</div><div>Volume</div><div>VIEW</div></div>
	Summer term	<div><div>Geometry</div><div>Shape</div><div>VIEW</div></div>	<div><div>Geometry</div><div>Position and direction</div><div>VIEW</div></div>	Themed projects, consolidation and problem solving			

Impact	<div> <div>Most children achieve the early learning goals in Mathematics</div> <div>Most KS1 and KS2 children will achieve at least the age-related expectations in Mathematics, as outlined in the National Curriculum and the Teacher Assessment Frameworks.</div> </div>		
	Children become...		
	<div> <div>Reflective</div>, engaged learners who enjoy learning and who are knowledgeable and skilled, make progress and show how <b>remarkable</b> they are.         </div>	<div> <div>Resilient</div>, articulate, independent individuals, who can lead safe, healthy and fulfilling lives in the communities in which they live now and in the future.         </div>	<div> <div>Responsible</div> and <b>respectful</b> citizens of the world who have the capacity to make positive contributions to society.         </div>