

## Mathematics

At Hamstel Infant School and Nursery we use a variety of resources to drive a Maths Mastery approach in our teaching. In EYFS we follow the White Rose scheme of work and then move onto Maths No Problem! throughout KS1. These Schemes support us in our planning, teaching and assessments. The philosophy behind Maths Mastery is that children develop a deeper understanding of mathematical procedures and begin to apply their knowledge to reason, explain and solve problems with increased confidence. We achieve this by focusing on small steps through quality first teaching and learning.

### Nursery

By the end of the Nursery year children should be able to confidently count and have a deep understanding of numbers to 5. This includes recognising, counting, representing, subitising and comparing numbers to 5

NURSERY YEARLY OVERVIEW				
<b>Autumn Term</b>	<b>Getting to Know You</b> Baseline assessments Using resources in the environment	<b>Just Like Me</b> <b>Number</b> Colours Match and Sort  <b>Measures, Shape and Spatial Thinking</b> Compare size, mass and capacity Simple patterns	<b>Just Like Me</b> <b>Number</b> Comparing and Sorting  <b>Measures, Shape and Spatial Thinking</b> Compare size, mass and capacity Simple patterns	<b>Number 1</b> <b>Number</b> Representing 1 Counting 1 Subitising 1 Matching numerals to quantity  <b>Measures, Shape and Spatial Thinking</b> Mass
<b>Spring Term</b>	<b>Number 2</b> <b>Number</b> Representing, counting, subitising 2 Matching numerals to quantity  <b>Measures, Shape and Spatial Thinking</b> Length and Height	<b>Number 3</b> <b>Number</b> Representing, counting, subitising 3 Composition of 3 Matching numerals to quantity  <b>Measures, Shape and Spatial Thinking</b> 2d shapes	<b>Number 4</b> <b>Number</b> Representing, counting, subitising 4 Composition of 4 Matching numerals to quantity  <b>Measures, Shape and Spatial Thinking</b> 3d shapes	
<b>Summer Term</b>	<b>Number 5</b> <b>Number</b> Representing, counting, subitising 5 Composition of 5 Matching numerals to quantity  <b>Measures, Shape and Spatial Thinking</b> 3d shapes	<b>More and Less</b> <b>Number</b> Identify more, fewer and the same as Comparing groups  <b>Measures, Shape and Spatial Thinking</b> Time – My Day	<b>Alive in 5!</b> <b>Number</b> Comparing numbers to 5 Composition of 4 and 5  <b>Measures, Shape and Spatial Thinking</b> Capacity	<b>On the Move</b> <b>Number</b> Deeping Understanding Patterns and Relationships  <b>Measures, Shape and Spatial Thinking</b> Positional Language

### Reception

By the end of the Reception year children should be able to confidently count, and have a deep understanding of numbers to 10. This includes recognising and being able to understand the relationships between numbers and patterns. This provides the foundations for further progress in KS1.

RECEPTION YEARLY OVERVIEW				
<b>Autumn Term</b>	<b>Getting to Know You</b> Baseline assessments Using resources in the environment	<b>Just Like Me</b> <b>Number</b> Match and Sort Compare amounts  <b>Measures, Shape and Spatial Thinking</b> Compare size, mass and capacity Exploring patterns	<b>It's Me 1 2 3!</b> <b>Number</b> Representing 1, 2 and 3 Comparing 1, 2 and 3 Composition of 1, 2 and 3  <b>Measures, Shape and Spatial Thinking</b> Circles and Triangles Positional Language	<b>It's Me 1 2 3!</b> <b>Number</b> Representing numbers to 5 One more and less  <b>Measures, Shape and Spatial Thinking</b> Shapes with 4 sides. Time
<b>Spring Term</b>	<b>Alive in 5!</b> <b>Number</b> Introducing zero Comparing numbers to 5 Composition of 4 and 5  <b>Measures, Shape and Spatial Thinking</b> Compare Mass (2) Compare Capacity (2)	<b>Growing 6, 7, 8</b> <b>Number</b> 6, 7 and 8 Combining 2 amounts Making pairs  <b>Measures, Shape and Spatial Thinking</b> Length and Height Time	<b>Building 9 and 10</b> <b>Number</b> Counting to 9 and 10 Comparing numbers to 10 Bonds to 10  <b>Measures, Shape and Spatial Thinking</b> 3d-shapes Spatial Awareness Patterns	
<b>Summer Term</b>	<b>To 20 and Beyond</b> <b>Number</b> Building numbers beyond 10 Counting patterns beyond 10  <b>Measures, Shape and Spatial Thinking</b> Spatial Reasoning (1) Match, Rotate, Manipulate	<b>First Then Now</b> <b>Number</b> Adding More Taking Away  <b>Measures, Shape and Spatial Thinking</b> Spatial Reasoning (2) Compose and Decompose	<b>Find my pattern</b> <b>Number</b> Doubling Sharing and Grouping Even and Odd  <b>Measures, Shape and Spatial Thinking</b> Spatial Reasoning (3) Visualise and Build	<b>On the Move</b> <b>Number</b> Deeping Understanding Patterns and Relationships  <b>Measures, Shape and Spatial Thinking</b> Spatial Reasoning (4) Mapping

## Year 1

By the end of Year 1, children should be able to count forwards and backwards, read and write numbers to 100 as well as begin to recognise relationships between the numbers therein. Children will be confident in addition and subtraction within 20 and will be able to solve problems using a variety of methods. They will learn how to count in solve a variety of problems involving multiplication and division and will begin to count in jumps of 2s and 10s. We will look at halves and quarters in fractions and learn key vocabulary to recognise shape and discuss space and measure.

## PRIMARY MATHS SERIES – YEAR 1 AT A GLANCE

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 10 LESSON BREAKDOWN	Calculations: Addition and Subtraction within 20 LESSON BREAKDOWN	Calculations: Multiplication LESSON BREAKDOWN
Week 2		Geometry – Properties of Shape: Shapes and Patterns LESSON BREAKDOWN	Calculations: Division LESSON BREAKDOWN
Week 3	Calculations: Addition and Subtraction LESSON BREAKDOWN	Measurement: Length and Height LESSON BREAKDOWN	Fractions: Fractions LESSON BREAKDOWN
Week 4		Revision and Mid-year (A) Tests	Number and Place Value: Numbers to 100 LESSON BREAKDOWN
Week 5			Measurement: Time LESSON BREAKDOWN
Week 6		Review and Remediation	Measurement: Money LESSON BREAKDOWN
Week 7			Measurement: Volume and Capacity LESSON BREAKDOWN
Week 8	Geometry – Position and Direction: Positions LESSON BREAKDOWN	Number and Place Value: Numbers to 40 LESSON BREAKDOWN	Measurement: Mass LESSON BREAKDOWN
Week 9	Number and Place Value: Numbers to 20 LESSON BREAKDOWN	Calculations: Addition and Subtraction LESSON BREAKDOWN	Geometry – Position and Direction: Space LESSON BREAKDOWN
Week 10			Revision and End-of-year (B) Tests
Week 11	Calculations: Addition and Subtraction within 20 LESSON BREAKDOWN	Calculations: Multiplication LESSON BREAKDOWN	Review and Remediation
Week 12			

## Year 2

In Year 2 children will continue looking at numbers to 100, understanding the place value of each number, and will be able to compare numbers and recognize patterns within. Children will become more familiar with written methods and can use their knowledge to solve problems in a variety of ways. They will also become more fluent in addition and number facts to 20 and will be able to use these to solve related facts to 100 more effectively. Our children will become more familiar with formal written methods of multiplication and division and will use their skills to solve problems independently and in a variety of ways. With Fractions, they will develop their understanding looking at  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{3}{4}$ , of number shapes and length and will continue to deepen their knowledge of space, shape and measure. The children also begin looking at statistics, and will explore and construct simple charts and answer simple questions.

## PRIMARY MATHS SERIES – YEAR 2 AT A GLANCE

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 100 LESSON BREAKDOWN	Statistics: Picture Graphs LESSON BREAKDOWN	Measurement: Time LESSON BREAKDOWN Measurement: Volume LESSON BREAKDOWN
Week 2	Calculations: Addition and Subtraction LESSON BREAKDOWN	Mid-year (A) Tests and Remediation	
Week 3		Calculations: More Word Problems LESSON BREAKDOWN	
Week 4		Measurement: Money LESSON BREAKDOWN	SATs
Week 5	Calculations: Multiplication of 2, 5 and 10 LESSON BREAKDOWN	Geometry – Properties of Shapes: 2-D Shapes LESSON BREAKDOWN	Review and Revisit Topics
Week 6	Calculations: Multiplication and Division of 2, 5 and 10 LESSON BREAKDOWN		
Week 7		Measurement: Length LESSON BREAKDOWN	Fractions: Fractions LESSON BREAKDOWN
Week 8	Review and Revisit Topics		
Week 9			
Week 10	Review and Revisit Topics		
Week 11			Review and Revisit Topics
Week 12	Measurement: Mass LESSON BREAKDOWN		
	Measurement: Temperature LESSON BREAKDOWN		

