



Nurture Inspire Achieve

Maths Curriculum Overview 2022



At Holymead Primary School we want our pupils to achieve high quality outcomes, through a broad, balanced, inspiring (creative, fun and exciting) curriculum.

Our focus is on:

- Keeping children safe
- Good quality teaching focusing on skills and knowledge
- A well planned, coherent, varied and interesting curriculum
- High quality outcomes



We have identified, using a range of data, 3 key factors that underpin and shape our School Curriculum.

- Promoting Pupils' Personal Responsibility
- Developing Pupils' Life Skills
- Increasing Pupils' Cultural Capital

Maths Curriculum Overview

National Curriculum Strands							
Fluency <ul style="list-style-type: none">become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately			Reasoning <ul style="list-style-type: none">reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language		Problem Solving <ul style="list-style-type: none">can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions		
Topics in the National Curriculum (all year groups) – see skills sheets & maths across the curriculum							
Number – number and place value	Number – addition and subtraction	Number – multiplication and division	Number – fractions (including percentages and decimals from Y5)	Measurement	Geometry – properties of shapes	Geometry – position and direction	Statistics
Additional topics in Y5: Percentages and Decimals				Additional Topics in Y6: Ratio and Proportion, Algebra			
Multiplication Tables Expectations							
YR	Y1	Y2	Y3	Y4	Y5	Y6	
Pupils solve problems, including doubling, halving and sharing.	Counting in 2,5,10	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, and counting in 3s.	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Recall multiplication and division facts for multiplication tables up to 12 × 12 [Recall and use 6,7,9,12 multiplication tables]	Pupils use and understand the terms factor, multiple and prime, square and cube numbers.	Pupils continue to use all the multiplication tables to calculate mathematical statements in order to maintain their fluency.	
Events							
Problem Solver of the Term Number Day	Problem Solver of the Term Number Day	Problem Solver of the Term Number Day TT Rockstars Contest	Problem Solver of the Term Number Day TT Rockstars Contest	Problem Solver of the Term Number Day TT Rockstars Contest Year 4 Maths Workshop with Cluster	Problem Solver of the Term Number Day TT Rockstars Contest Year 5 Bristol Grammar School Maths Challenge	Problem Solver of the Term Number Day TT Rockstars Contest Year 6 Red Maids' High School Maths Challenge event	

EYFS Maths Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Week 1	Baseline	Ways to make 5 using objects and Numicon	Measuring time	Take away	Ordinal numbers	Money
Week 2		Capacity	Height	Addition and takeaway Which operation should you use?	Weight	Building numbers beyond 10
Week 3		Adding one more	Estimating	Doubling	Sharing	Building numbers beyond 10
Week 4	Counting objects 1:1	Addition	Addition	Counting on on a number line	Halving	Counting patterns
Week 5	Counting objects 1:1 Matching amounts to numerals	Positional language	Length	Maths in real life day	Counting back	Counting patterns
Week 6	Length	4 sided shapes	3D shape	Counting on using objects		Even and odd
Week 7	2D shapes	Day and night	Repeating patterns			3D shape
Week 8	Repeating patterns					

Year 1 Maths Overview

Term 1	Number: Place Value, Comparing, Counting				Addition, Number Bonds and Subtraction			
Ongoing Skills	Counting backwards and forwards up to 100 One more and one less Number formation				Recall of single digit number facts, part part whole, number bonds to ten, number formation.			
Term 2	Subtraction		Geometry Shape	Consolidation / Shape	Assessment	Place Value (within 20)		
Ongoing Skills	Single digit number facts / part part whole Counting Backwards and Forwards				Counting backwards and forwards, One more and one less Counting in tens, money			
Term 3	Addition and Subtraction, Number Bonds, Consolidation				Place Value (within 50)			
Ongoing Skills	Counting forwards, counting backwards, recognising numbers and amounts, using Numicon, daily morning starters for fluency							
Term 4	Consolidation, Review & Counting in 2s	Length & Height		Weight and Volume		Consolidation (Place Value, Number facts)		
Ongoing Skills	Counting on and back, place value, number facts, counting in 10s, adding and subtracting							
Term 5	Multiplication and Division			Fractions				
Ongoing Skills	Place value, money, coin recognition, shape and basic properties, counting, number facts and missing number							
Term 6	Division	Money		Time	Place Value		Geometry	
Ongoing Skills	Counting on and back, place value, number facts, adding and subtracting, counting in 2s, 5s and 10s							

Year 2 Maths Overview

Term 1	Place Value: Number Sense	Place Value: Number Bonds	Place Value: Adding Single Digits	Place Value: Partitioning	Addition & Subtraction: Multiples of 10	Addition & Subtraction: Single digits to two digits	Subtraction: Two digit from two digit	
Ongoing Skills	10 x table, Counting in steps of 2 5 and 10, Number facts and bonds to 10, bonds to 20 Doubles and halves				2 and 5 x tables, adding and subtracting multiples of 10			
Term 2	Addition & Subtraction: Recap	Fact families & derived facts	Money	Arithmetic Assessment & Money	Money	Multiplication & Division: Equal Groups	Multiplication & Division: Groups	
Ongoing Skills	Addition and Subtraction arithmetic, Place Value, 10 x table				2,5,10 times tables, counting in threes, division.			
Term 3	Multiplication & Division: Recap groups	Multiplication & Division: Groups & Arrays	Multiplication & Division: Arrays	Multiplication & Division: Division	Number Bonds & Bridging	Fractions: Introduction	Fractions	
Ongoing Skills	Division using grouping / repeated addition / skip counting, place value, missing number problems, addition and subtraction of 2 digit numbers, bridging ten mentally							
Term 4	Review: Measure, turning, routes, scales	Time & Multiplication Word Problems	Addition and Subtraction Problems	Arithmetic Review and Assessment	Grouping/Sharing Problems, Two step problems, Number bonds	Review: Coins, change missing number problems		
Ongoing Skills	Arithmetic all 4 operations, fractions, reasoning / missing number problems							
Term 5	Review: Consolidation and Gaps			SATS Administration				

Ongoing Skills	Gaps identified from Term 4 assessments						
Term 6	Time	2D and 3D Shape	Money & Measure	Arithmetic Revision		Position and Direction	
Ongoing Skills	Mental calculation – four operations, Mental addition/subtraction, Number bonds Counting on to find difference, Multiplication tables: 2 5 and 10,counting in threes						

Year 3 Maths Overview

Term 1	Arithmetic Skills		Place Value, Ordering, Comparing, Rounding			Addition (mental, informal and formal method) Subtraction (counting on), routine problems, change		
Ongoing Skills	2x table sheet	5x table sheet	10x table sheet	Adding and subtracting single digits, missing numbers & values of digits	2, 5, 10x tables mixed			Column addition & subtraction, missing numbers & adding 3 numbers
Term 2	Multiplying and dividing by 10	Multiplication & Division (informal arrays, linked facts)			Assessments	Multiplication and Division (mental recall, problem solving)		
Ongoing Skills	Times tables 2, 5, 10, 3, 4, 8 & 11 Multiplying and dividing by 10 & 100 Mental Calculations subtraction and addition Formal addition and subtraction Missing numbers				Multiplying by multiples of 10 Multiplying by partitioning Times tables 2, 5, 10, 3, 4, 8 & 11			
Term 3	Multiplication and Division (mental recall, problem solving)		Measurements (money)	Statistics		Measurement (length and perimeter)		
Ongoing Skills	Dividing and multiplying by 10 & 100 Multiplying by multiples of 10		Adding and subtracting money Missing numbers – division Column addition and subtraction Times tables 2, 5, 10, 3, 4, 8 & 11					
Term 4	Fractions				Assessment	Multi-step problems		
Ongoing Skills	Adding and subtracting fractions with the same denominator 2 step addition and subtraction 2 step multiplication				Times tables 2, 5,10, 3, 4,8 & 11			
Term 5	Formal methods division		Time					
Ongoing Skills	Equivalent calculations Equivalent fractions 2 step missing number problems – linked to dividing & multiplying by 10			Unit and non-unti fractions of ammounts Long division Equivalent calculations				

Term 6	Measurement (mass and capacity)		Assessment	Geometry (properties of shape)	Multiplication (formal methods)
Skills	Adding fractions and whole numbers Multiplying by partitioning Fractions smaller and bigger than Decimals e.g. number between 36.0 and 37.0			Ordering fractions Fractions of ammounts Fractions bigger and smaller Decimals e.g. number between 36.0 and 37.0	

Year 4 Maths Overview

Term 1	Year 3 Revision <ul style="list-style-type: none">•Addition.•Subtraction.•Multiplication.•Division.•Mental Strategies.•Fractions.•Guided Problem Solving.			Place Value <ul style="list-style-type: none">•Represent numbers using different representations.•Recognise the place value of digits.•Order and compare numbers beyond 1,000.•Round any number to the nearest 10, 100 or 1,000.•Find 1,000 more or less than a given number.•Count backwards through 0.		Addition <ul style="list-style-type: none">•Add numbers with up to 4 digits using column addition.•Solve addition two-step problems in contexts.•Estimate and use inverse to check answers to calculations.		Subtraction <ul style="list-style-type: none">•Subtract numbers with up to 4 digits using column addition.•Solve subtraction two-step problems in contexts.•Estimate and use inverse to check answers to calculations.		
Arithmetic				<ul style="list-style-type: none">•2 digit column addition and subtraction.• Missing number sentences• Mental calculations					<ul style="list-style-type: none">•2 digit column addition and subtraction.• Missing number sentences• Mental calculations	
X Tables	10 X Tables	5 X Tables	2 X Tables			3 X Tables	4 X Tables	8 X Tables		
Term 2	Multiplication <ul style="list-style-type: none">•Use known facts to multiply numbers mentally.•To multiply numbers by 0 and 1.•Multiply 3 numbers together.•Recognise and use factor pairs.•Multiply two-digit and three-digit numbers by a one-digit number.•Solve problems involving multiplying and adding, including integer scaling problems.			<i>Assessment Week</i>	Division <ul style="list-style-type: none">•Use known facts to divide numbers mentally.•To divide numbers by 0.•To divide using the compact division method.					
Arithmetic	<ul style="list-style-type: none">•Column addition and subtraction up to 4 digits.•Using the inverse to solve missing number problems.•Round any number to the nearest 10, 100 and 1000.				<ul style="list-style-type: none">•Column multiplication.•Multiply numbers by 0 and 1.•Multiply 3 numbers together.					
X Tables	3 X Tables	4 X Tables	8 X Tables			11 X Tables	9 X Tables	6 X Tables		
Term 3	Fractions <ul style="list-style-type: none">•To understand and identify fractions.•Count up and down in tenths and hundredths.•Recognise and show families of common equivalent fractions.•Add and subtract fractions with the same denominator.•Solve problems to calculate quantities of amount.				Time <ul style="list-style-type: none">•Solve problems involving converting units of time.•Read, write and convert time between analogue and digital 12- and 24-hour clocks.					

					•Solve problems involving calculating lengths of time.		
Arithmetic	•Compact division method. •Divide using mental strategies. •Using the inverse to solve missing number problems.				•Adding and subtracting fractions. •Fractions of amounts. •Round any numbe to the nearest 10, 100 and 1000.		
X Tables	11 X Tables	9 X Tables	6 X Tables	7 X Tables	7 X Tables	7 X Tables	
Term 4	Decimals •Recognise and write decimal equivalents of any number of tenths or hundredths. •Find the effect of dividing a one- or two-digit number by 10 and 100. •Round decimals with 1 decimal place to the nearest whole number. •Order and compare numbers with the same number of decimal places up to 2 decimal places.			Assessment Week	Money •Estimate, compare and calculate money in pounds and pence. •Solve simple money problems.	Roman Numerals •Read Roman numerals to 100 (I to C).	
Arithmetic	•Column addition and subtraction up to 4 digits. •Multiply 3 numbers together. •Compact division method.				•Multiplying and dividing by 10 and 100. •Rounding decimals. •Greater than and less than signs.		
X Tables	12 X Tables	12 X Tables	12 X Tables		Mixed Tables	Mixed Tables	
Term 5	Measurement •Estimate, compare and calculate different measures. •Convert between different units of measure. •Solve problems involving converting between different units of measure.			Area and Perimeter •Measure and calculate the perimeter of a rectilinear figure in cm and m. •Find the area of rectilinear shapes by counting squares.			
Arithmetic	•Adding and subtracting money. •Missing number sentences. •Fractions of amounts			•Multiplying and dividing by 10 and 100. •Multiply 3 numbers together. •Adding and subtracting fractions.			
X Tables	Mixed Tables	Mixed Tables	Mixed Tables	Mixed Tables	Mixed Tables		
Term 6	Geometry – Position and Direction		Assessment Week	Geometry – Properties of shape •Compare and classify geometric shapes.		Statistics	

	<ul style="list-style-type: none"> •Describe positions on a 2-D grid as coordinates in the first quadrant. •Describe movements between positions as translations. •Plot specified points and draw sides to complete a given polygon. 			<ul style="list-style-type: none"> •Identify acute and obtuse angles and compare and order angles up to 2 right angles by size. •Identify lines of symmetry in 2-D shapes. •Complete a simple symmetric figure with respect to a specific line of symmetry. 		<ul style="list-style-type: none"> •Interpret and present discrete and continuous data using appropriate graphical methods. •Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. 		
Arithmetic	<ul style="list-style-type: none"> •Rounding decimals. •Multiply by 1 and 0. •Greater than and less than signs. 			<ul style="list-style-type: none"> •Adding and subtracting money. •Column multiplication. •Round any numbe to the nearest 10, 100 and 1000. 				
X Tables	Mixed Tables	Mixed Tables		Mixed Tables	Mixed Tables	Mixed Tables	Mixed Tables	

Year 5 Maths Overview

Term 1	Addition, Subtraction, multiplication, division, Mental strategies, Fractions Guided reasoning session (Y)		Place Value Read and write numbers (1m) Value of digits Rounding Negative numbers			Calculations Addition, subtraction Formal, mental and estimation		Multiplying and dividing by 10, 100 and 1000	
Skills	4x tables Arithmetic year 4 review 8x tables Addition/subtraction /place value								
Term 2	Factors, multiples, prime, square and cube numbers		Multiplication Mental, formal, problem solving		Assessments		Division Mental formal, problem solving		
Skills	6x, 7x table Place value Addition and subtraction Multiplying by 10/100/1000								
Term 3	Fractions, decimals and percentages Simplifying, compare and order, add and subtract, multiple and divide, improper and mixed numbers, fractions of a number, percentage of a number, equivalent								
Skills	9x,12x tables X/10,100,1000 Arithmetic Negative numbers Mixed times tables								
Term 4	Shape and geometry Area and perimeter, 2D and 3D properties, nets, angles			Assessments		Time			
Skills	Addition and subtraction of fractions Equivalent fractions FDP Mixed times tables								
Term 5	Statistics Reading and constructing graphs including: bar charts, line graphs and pictograms with different scales			Area and perimeter Converting measure		Shape translation, reflection, coordinates rotation			

Skills	Mixed times tables Multiplying and dividing fractions Place value Multiplying by 10,100 and 1000				
Term 6	Caluclation and problem solving 4 operations	Assessment	Ratio and proportion Scaling problems		
Skills	Mixed times tables Multiplying and dividing fractions Place value Multiplying by 10,100 and 1000				

Year 6 Maths Overview

Term 1	Calculations Addition, Subtraction, multiplication, division	Place Value Read and write numbers (10m) Value of digits Rounding Negative numbers			Decimals comparing and ordering rounding calculations	Assessments Arithmetic and problem solving tests review sessions	Calculations Review sessions Missing number problems	
Skills	Mixed times table sheet	Arithmetic Column addition and subtraction	Arithmetic Column addition and subtraction	Arithmetic multiplication and division	Arithmetic mental strategies	Arithmetic multiplying and dividing by 10, 100 and 1000	Review of skills	
Term 2	Calculations Multiplication, division, factors, multiples, prime numbers	Fractions, decimals and percentages Simplifying, compare and order, add and subtract, multiple and divide, improper and mixed numbers, % and fractions of amounts, equivalent				Assessments Arithmetic test Problem solving test review sessions	FDP	
Skills	Mixed Times tables	Arithmetic Short division, addition and subtraction			Mixed Times tables		Arithmetic Prime, factors, multiples	
Term 3	Ratio and Proportion Scale factors, ratio problems, links to percentages and fractions		Statistics and measurement Time, time tables, graphs, Converting measure, Mean		Assessments Arithmetic test Problem solving test review sessions		Stats	
Skills	Arithmetic FDP conversion X/10,100,1000		Arithmetic Negative numbers		Mixed times tables			
Term 4	Algebra Simple formulae, linear sequences, missing numbers, two variables,		Assessments Arithmetic test Problem solving test review sessions	Camp	Shape and geometry Area and perimeter, 2D and 3D properties, nets, translation, reflection, coordinates			
Skills	Arithmetic Long division and long multiplication			Camp	Arithmetic Addition and subtraction of fractions Equivalent fractions			
Term 5	Statistics and Measure Converting measure, graphs			SATS	Shape Area and perimeter, 2D and			

			3D properties, nets, translation, reflection, coordinates			
Skills	Mixed times tables		Mixed Times tables			
Term 6	Shape and geometry Area and perimeter, 2D and 3D properties, nets, translation, reflection, coordinates	Statistics and Measure Converting measure, graphs		Calculations Multiplication, division, factors, multiples, prime numbers		
Skills	Mixed times tables					