

Our Mathematics curriculum aims to ensure all pupils:

- Our Maths curriculum aims to ensure that all pupils:
- 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.
- Reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- 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.



	Autumn 1		Autumn 2
Weeks 1-2	To read and write seven-digit numbers	Week 1	To use common factors to simplify fractions
Place Value	To identify the value of each digit in a seven-digit number	Simplify,	To use common multiples to express fractions in the same
	To use the value of the digits to compare and order numbers	compare and	denomination
	To round any whole number to the required degree of accuracy	order	To generate and describe linear number sequences (with fractions)
	To perform mental calculations, including with mixed operations and large	equivalent	To compare and order fractions using the denominator
	numbers	fractions	To compare and order fractions using the numerator
	To use negative numbers in context, and calculate intervals across zero		
	To use and apply place value knowledge to solve problems-assessment task		
	To understand and use Roman numerals	Week 2	
		Addition and	To add fractions with different denominations and mixed numbers,
		subtraction of	using the concept of equivalent fractions
		fractions	To add fractions using part- whole models and bar models
			To subtract fractions using the concept of equivalent fractions
			To use addition and subtraction of fractions to solve problems
Weeks 3-4	To add a multiple of 10, 100 or 1000, 10 000, 100 000 from a six- or seven-digit	Weeks 3	To multiply fractions by whole numbers, writing the answer in its
Addition and	number	Multiplication	simplest form
Subtraction	To add six- seven-digit numbers using the formal written method of columnar	and division of	To multiply fractions by fractions, writing answers in the simplest form
	addition	fractions	To divide proper fractions by whole numbers
	To add numbers with up to two decimal places using the formal written method		To use four operations with fractions
	of columnar addition		
	To practise addition for larger numbers, including both mental and written		
	methods	Week 4	To work out fractions of an amount
	To subtract a multiple of 10, 100 or 1000, 10 000, 100 000 from an even six- or	Fractions of	To find the whole amount from a fraction
	seven-digit number	amounts	To solve problems that involve adding, subtracting, multiplying and
	To subtract six- seven-digit numbers using the formal written method of		dividing fractions
	columnar subtraction		
	To subtract numbers with up to two decimal places using the formal written		
	method of columnar subtraction		
	To practise subtraction for larger numbers, including both mental and written		
	methods		
Weeks 5-6	To identify common factors and common multiples	Week 5	To identify prime numbers
Multiplication	To recognise prime and square numbers	Prime, square	To explore the relationship between square and cube numbers
and division	To make a reasonable estimate of the answer to a calculation and use this to	and cube	To use their knowledge of the order of operations to carry out
	check the answer	numbers	calculations involving the four operations
	To use a written method to calculate multiplication of TO x TO	BODMAS	To use BODMAS to solve problems and end of unit test
	To use a written method to calculate multiplication of HTO × TO		
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To use a written method to calculate multiplication of ThHTO x O To use the formal written method of short division to calculate ThHTO ÷ 0, ThHTO ÷ 11 and ThHTO ÷ 12 To use factors to solve division calculations To use the formal written method of short division To use and apply knowledge of four operations to solve problems	Week 6 Measurement- converting units	To read, write and recognise metric measures of length, mass and capacity To convert between units of length, mass and capacity To calculate with metric measures using conversion skills To calculate and convert between units of time To solve problems with time including calculating average speed To convert between miles and kilometres To understand imperial measure and convert between metric and imperial
	Week 7 End of unit/term assessments Tangram investigation	To consolidate understanding of topics this term To complete assessments To investigate Christmas tangrams





	Spring 1		Spring 2
Weeks 1-2	To find a rule using simple formulae- one step function	Week 1	To use correct ratio language
Algebra	To find a rule using simple formulae - two step/ linear equations	Ratio and	To use the ratio symbol
(Week 1 of	To form expressions	proportion	To recognise ratio as fractions
this at end	To substitute and express missing number problems algebraically		To calculate ratio
of Autumn	To create formulae		To use scale factors to draw shapes
2)	To form equations		To calculate scale factors of shapes
	To solve one step equations		To solve ratio and proportion problems
	To solve two step equations		
	To find pairs of values – 1	Weeks 2-3	To find and draw shapes that have the same area
	To find pairs of values - 2	Measurement	To be able to calculate the area and perimeter of shapes including compound shapes
		Area and	To address misconceptions of reasoning papers
		perimeter	To find the area of a triangle by counting squares
Weeks 3-4	To identify the value of each digit in numbers given to 3 decimal		To use formula to calculate the area of a right angled triangle
Decimals	places		To be able to calculate the area of different triangles
	To multiply numbers by 10, 100 and 1,000 giving answers up to 3		To calculate the area of parallelograms
	decimal places.		To count cubes to calculate volume
	To divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places.		To use formula to calculate the volume of a cuboid
	To multiply 1 digit numbers with up to 2 decimal places by integers.		
	To divide numbers with up to 2 decimal places by integers.	Weeks 4-6	To recognise and label the properties of 2d and 3d shape
	To solve problems which require answers to be rounded to	Properties of	To use knowledge of shapes and measure to draw shapes accurately
	specified degrees of accuracy.	shape 2d and	To recognise 3d shapes from nets
	To recall and use equivalences between simple fractions and	3d and surface	To draw nets of 3D shapes
	decimals in different contexts.	area	
	To convert fractions to decimals and vice versa		
	To be able to use division to convert fractions to decimals	Angles	To measure with a protractor
			To recognise and label a range of angles
Weeks 5-6	To be able to convert fractions to percentages		To calculate angles around a point and on a straight line
Percentages	To be able to convert between fractions, decimals and percentages		To calculate angles vertically opposite angles
_	To be able to order fractions, decimals and percentages		To calculate angles in a triangle
	To solve problems involving the calculation of percentages		To explore the interior angles of quadrilaterals
	To use fractions to find percentages of amounts -1% 10% 25% 50%		To explore the interior angles of regular polygons
	To use fractions to find percentages of amounts- compound		
	percentages e.g. 15%, 20% and 35%	Geometry-	To describe positions on the full coordinate grid (all four quadrants)
	To use percentages to find missing values	position and	To draw and translate simple shapes on the coordinate plane
	To understand percentage increase and decrease	direction	To reflect shapes across the axes
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Garden Suburb Junior School

Mathematics Curriculum Overview 2023-2024

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	Summer 1		Summer 2
Weeks 1-2 Statistics	To be able to Illustrate and name parts of circles- radius, diameter and circumference and know that the diameter is twice the radius. To be able to read and interpret pie charts To use percentages to understand pie charts To construct pie charts and use them to solve problems To be able to calculate the mean as an average. To be able to read and interpret line graphs To be able to draw line graphs To be able to interpret and construct line graphs and use them to solve problems.	Week 1-2 Money	To know that money, and ways to pay, have developed in many different forms throughout history e.g. barter, coins, notes etc To understand the history of currency and coinage To know how to managing a budget
Weeks 3-5 Mock SATs weeks And SATs week		Week 3-4 Investigations Amusement Park Project	To reason and problem solve using all 4 operations To be able to use the correct mathematical vocabulary for running a business To use and apply money skills to context of amusement park