

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.

Year Group: 6



	Autumn 1		Autumn 2
Weeks 2-3	To read and write seven-digit numbers	Weeks 1-2	To use common factors to simplify fractions
Place Value	To identify the value of each digit in a seven-digit number	Fractions	To use common multiples to express fractions in the same denomination
	To use the value of the digits to compare and order numbers		To compare and order fractions
	To round any whole number to the required degree of accuracy		To generate and describe linear number sequences (with fractions)
	To perform mental calculations, including with mixed operations and large		To add fractions with different denominations and mixed numbers, using
	numbers		the concept of equivalent fractions
	To use negative numbers in context, and calculate intervals across zero		To add fractions using part- whole models and bar models
	To use and apply place value knowledge to solve problems-assessment task		To subtract fractions using the concept of equivalent fractions
	To understand and use Roman numerals		To use addition and subtraction of fractions to solve problems
Weeks 4-5	To add a multiple of 10, 100 or 1000, 10 000, 100 000 from a six- or seven-digit	Weeks 3-4	To multiply fractions by whole numbers, writing the answer in its
Addition and	number	Fractions	simplest form
Subtraction	To add six- seven-digit numbers using the formal written method of columnar		To multiply fractions by fractions, writing answers in the simplest form
	addition		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 work out fractions of an amount
	To practise addition for larger numbers, including both mental and written		To find the whole amount from a fraction
	methods		To solve problems that involve adding, subtracting, multiplying and
	To subtract a multiple of 10, 100 or 1000, 10 000, 100 000 from an even six- or		dividing fractions
	seven-digit number		
	To subtract six- seven-digit numbers using the formal written method of 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 6-7	To identify common factors and common multiples	Week 5	To use their knowledge of the order of operations to carry out
Multiplication	To recognise prime and square numbers	Prime,	calculations involving the four operations
and division	To make a reasonable estimate of the answer to a calculation and use this to	square and	To use BODMAS to solve problems
	check the answer	cube	
	To use a written method to calculate multiplication of TO x TO	numbers	
	To use a written method to calculate multiplication of HTO × TO	BODMAS	
	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,		To describe positions on the full coordinate grid (all four quadrants)
	ThHTO ÷ 11 and ThHTO ÷ 12	Week 6	To draw and translate simple shapes on the coordinate plane
	To use factors to solve division calculations	Geometry-	To reflect shapes across the axes
	To use the formal written method of short division	position and	
	To use and apply knowledge of four operations to solve problems	direction	
		consolidation	

Year Group: 6



	Spring 1		Spring 2	
Weeks 1-2	To identify the value of each digit in numbers given to 3 decimal	Weeks 1-3	To read, write and recognise metric measures of length, mass and capacity	
Decimals	places	Measurement	To convert between units of length, mass and capacity	
	To multiply numbers by 10, 100 and 1,000 giving answers up to 3		To calculate with metric measures using conversion skills	
	decimal places.		To calculate and convert between units of time	
	To divide numbers by 10, 100 and 1,000 giving answers up to 3		To solve problems with time including calculating average speed	
	decimal places.		To convert between miles and kilometres	
	To multiply 1 digit numbers with up to 2 decimal places by integers.		To understand imperial measure and convert between metric and imperial	
	To divide numbers with up to 2 decimal places by integers.		To find and draw shapes that have the same area	
	To solve problems which require answers to be rounded to		To be able to calculate the area and perimeter of shapes including compound shapes	
	specified degrees of accuracy.		To address misconceptions of reasoning papers	
	To recall and use equivalences between simple fractions and		To find the area of a triangle by counting squares	
	decimals in different contexts.		To use formula to calculate the area of a right angled triangle	
	To convert fractions to decimals and vice versa		To be able to calculate the area of different triangles	
	To be able to use division to convert fractions to decimals		To calculate the area of parallelograms	
			To count cubes to calculate volume	
			To use formula to calculate the volume of a cuboid	
	To be able to convert fractions to percentages	Week 4	To use correct ratio language	
	To be able to convert between fractions, decimals and percentages	Ratio and	To use the ratio symbol	
	To be able to order fractions, decimals and percentages	proportion	To recognise ratio as fractions	
Weeks 3-4	To solve problems involving the calculation of percentages		To calculate ratio	
Percentages	To use fractions to find percentages of amounts -1% 10% 25% 50%		To use scale factors to draw shapes	
rereentuges	To use fractions to find percentages of amounts- compound		To calculate scale factors of shapes	
	percentages e.g. 15%, 20% and 35%		To solve ratio and proportion problems	
	To use percentages to find missing values			
	To understand percentage increase and decrease			
	To tind a rule using simple tormulae, one step function	Week 5-6	To measure with a protractor	
	To find a rule using simple formulae - two step function linear	Properties of	To recognise and label a range of angles	
	equations	shape and	To calculate angles around a point and on a straight line	
	To form expressions	surface area	To calculate angles vertically opposite angles	
Weeks 5-6	To substitute and express missing number problems algebraically		To calculate angles in a triangle	
	To create formulae		To explore the interior angles of quadrilaterals	
Algebra	To form equations		To explore the interior angles of regular polygons	
	To solve one step equations			
	To solve two step equations		To use knowledge of shapes and measure to draw shapes accurately	
	To find pairs of values – 1		To recognise 3d shapes from nets	
	To find pairs of values - 2		To draw nets of 3D shapes	
			To address misconceptions of arithmetic and reasoning papers	

Garden Suburb Junior School

Mathematics Curriculum Overview 2020 – 2021

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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 4-5 Mock SATs week 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