

## Portchester Community School Mathematics Programme of Study 2020-21

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Number and place	Fractions	Measures	Sequences	Indices and roots	Transformations
	value					
	The form on the sec	Percentages	2D and 3D Shapes	Angle facts	Co-ordinates	Average child
	The four operations	Use of a calculator	Area	Constructions of	Linear functions	Ratio
	Multiples, factors and	USE OF a Calculator	Alea	shapes	Linear functions	Natio
	primes, HCF, LCM	Expressions, formulae	Probability	Shapes	3D Shapes	
	BIDMAS	and linear equations	,	Design a Sports Field		
		·	Design a Farm		Volume of a cuboid	
		Cost of Christmas				
8	The four operations	Percentages	Perimeter, Area and	Sequences	Graphs	Transformations
	including place value	Deffe	Volume	Augula Eagla	Dock at 194	04-41-41
	Multiples, factors,	Ratio	Solving equations and	Angle Facts	Probability	Statistics
	powers, primes,	Expressions and	inequalities	Constructions	Plans and Elevations	
	BIDMAS	formulae	moquantioo	Conocidono	I land and Elevations	
				Bearings and Scale		
	Fractions	Use of a Calculator		_		
9	Number Review	Percentages	Coordinates and	Angles	Constructions and	Statistics
	A	(including growth and	Linear Graphs	D (1 ) T	Loci	D 1 122
	Algebra Review	decay)	Equations	Pythagoras' Theorem	Scale Drawing	Probability
	Sequences	Ratio and Proportion	Equations	Trigonometry	Scale Drawing	2D representation of
	Coquonoco	Tradio and Troportion	Averages	introduction	Bearings	3D shapes including
		Area and Perimeter	- menager			plans and elevations
			Scatter graphs		Transformations	
10	Foundation:	Foundation:	Foundation:	Foundation:	Foundation:	Foundation:
	Number Review (1)	Number Review (2)	Fractions, Decimals	Scatter Graphs	Indices	Statistical Measures
	Dounding	Angles	and Percentages	Transformations	Duthagaras' Theorem	Simultaneous
	Rounding	Angles	Calculating with	Transformations	Pythagoras' Theorem	Equations
	Measures	Properties of Polygons	Percentages inc	Linear Equations	Real Life Graphs	Equations
		1 1 2 5 1 1 2 1 3 1 1 2 1 3 1 1 2	Growth and Decay			Revision
	Area and Perimeter	Algebra Review	<b>,</b>	Inequalities		
			Volume	Scale Drawing and		
	Sequences	Graphs		Bearings		



10	<b>Higher:</b> Surds	Higher: Percentages	Higher: Angles and Polygons	Higher: Ratio and Proportion	Higher: Pythagoras' Theorem and Trigonometry	Higher: Collecting and Representing Data
	Rounding	Rules of Indices	Area and Perimeter	Congruence and Similarity	Scale Drawing and	Statistical Measures
	Factors and Multiples incl Product Rule for	Rearranging Formulae	Volume	Inequalities	Bearings	Circle Theorems
	Counting HCF LCM	Coordinates and Linear Graphs	2D representation of 3D shapes	Probability	Transformations	
	Algebra Review	Quadratic Equations and Graphs	Linear Equations			
	Fractions including Algebraic Fractions	·	Simultaneous Equations			
11	Foundation:	Foundation:	Foundation:	Foundation:	Foundation:	Foundation:
	Basic Number Review	2D and 3D shapes	Congruence and Similarity	Revision	Revision	Revision
	Indices	Algebra and Graphs	Trigonometry			
	Standard Index Form	Direct and inverse Proportion	Vectors			
	Probability recap	Real Life Graphs	Simultaneous			
	Quadratic Graphs	Revision for Mocks	Equations			
	Circumference and Area of a Circle	The most in the same				
11	Higher:	Higher:	Higher:	Higher: Revision	Higher: Revision	Higher:
	Surds	Vectors	Real Life Graphs	Circles Review		Revision
				Inc Equation of a	Probability (inc Venn	
	Circle Theorems	Iteration	Gradients and Rates of Change	Circle	Diagrams)	
	Functions	Trigonometry	Area under a Curve	Statistics Review	Direct and Inverse Proportion	
	Transformation of Functions	MMMR	Sketching Graphs	Quadratic Equations		
	Identities and proof	Exponential Growth and Decay		Quadratic Sequences		
	'			Rearranging Formulae		



**GCSE Mathematics Specification**