



The King's School Curriculum Map 2019-2020

Subject: Maths – All Years

	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics
7	Algebra – sequences	Number – Place Value	Number – Addition &	Number – Directed number	Shape – Construction &	Number – Reasoning & Number
	Algebra – Notation	Number – FDP	Subtraction	Number – Fractions	Notation	sense
	Algebra – Equality & Equivalence	Life Skills (Money Management)	Number – Multiplication &		Shape – Geometric reasoning	Probability
			Division	Soquencing		Number – Prime numbers &
	Sequencing:	Sequencing		Order directed numbers	Sequencing	Proof
	Describe & continue seguences	Describe & continue a seguence	Sequencing	Four rules of calculations with	Draw and measure lines using a	
	Eind missing terms in a	Compare and order whole	Boviow mothods of addition &	directed numbers	Diaw and measure mes using a	Sequencing:
		desimal negative & fractional	subtraction	Substitution converses and	Draw and measure angles using	Montal arithmatic stratogies
	Sequence Find the ath term of sequences	numbers	Solve problems including monoy	BIDMAS with pogative numbers	a rular & protractor	Tosts of divisibility
	Pacognico the difference	Liso inequality symbols to	and shape	Liso inoquality symbols	Linderstand & use angle & line	Povisit EDP conversions
	between linear and non linear	compare	Read information from tables	Solve inequalities and display on	notation	Use known facts to derive other
		Bound to the nearest 10, 100 etc.	and charts	a number line	Recognise parallel &	facts
	Becognise different types of	Round to the hearest 10, 100 etc	lising Frequency trees		nernendicular lines	Investigate odd and even
	sequences such as	significant figures	Addition & subtraction with	Addition & subtraction of	Becognise common triangles	numbers using algebra
	geometric/Fibonacci	Find the range median and	standard form	fractions with and without	quadrilaterals & polygons	
	geometric/hoondeer	mode of a list of numbers and	Solve problems and reverse	common denominators	Draw triangles using	Understand and use Venn
	Use inverse operations	from a table	problems in context with	Revisit equivalent fractions	constructions	diagrams
	Simplify algebraic expressions	Estimate calculations	algebra	Mixed decimal & fraction	Bisect angles & lines	Place events in the order of
	Use function machines	Use upper and lower bounds		questions	Draw & interpret pie charts	likelihood
	Substitute numbers into	Use standard index form	Multiply & divide by powers of	Improper and mixed fractions	Revisit standard form	Basic probability of a single
	expressions		10	Use of a calculator	Understand congruency	event using the scale 0 to 1 and
	Represent functions graphically	Represent FDP on a number line	Convert between metric units	Algebraic fractions	Pythagoras' theorem	list outcomes
	Generate sequences from an	Find and compare fractions in	Find percentages and fractions	Recognise & use reciprocals		Collect and record data from a
	algebraic rule	shapes	of an amount		Calculate angles on a line, at a	simple experiment
	-	Interchange between FDP	Area of rectangles, triangles,		point & vertically opposite	Understand & use set notation
	Use number bonds and the bar	Equivalent fractions including	parallelograms, trapeziums &		angles	Find the probability of events
	model	algebraic fractions	BIDMAS		Calculate missing angles in	not happening
	Solve one step linear equations	Solve equations with fractions	Find Highest Common Factors		triangles & quadrilaterals.	Use two way tables
	Simplify like terms	Interpret Pie charts	&Lowest Common Multiples		Find angles in parallel lines	Know that increasing the times
	Write an equation and solve it	Introduction of rational and	Find the mean from frequency		Find angles in polygons	of an experiment leads to better
	Multiply a term over a bracket	irrational numbers	tables		Understand the proof of angles	estimates of probability
	Understand the meaning of	Convert recurring decimals to	Algebraic area		on a straight line	Venn diagrams for HCF & LCM
	equivalence and identity	fractions	Increase percentages using a		Involve algebra into shape	And / Or rules for probability
	Solve simultaneous equations		multiplier		questions	Exclusive & exhaustive events
		Recognising your money	Repeated percentage change			
		personality	Solve equations			Types of number including
		Value for money				factors & multiples





	Assessments: End of block WIN/FBI sheet (Approximately every 2 weeks)	Understanding bank accounts, read statements and track transactions Attitude to money and safeguarding financial information Assessments: End of block WIN/FBI sheet (Approximately every 2 weeks) End of Autumn terms	Assessments: End of block WIN/FBI sheet (Approximately every 2 weeks)	Assessments: End of block WIN/FBI sheet (Approximately every 2 weeks) End of Spring terms Assessment	Assessments: End of block WIN/FBI sheet (Approximately every 2 weeks)	Find the product of prime factors Index notation & laws of indices Multiplication & division with standard form Algebraic proof Assessments: End of block WIN/FBI sheet (Approximately every 2 weeks) End of Summer terms
	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:
	Homework:	Homework:	Homework:	Homework:	Homework:	Homework:
	Weekly homework set on Show My Homework	Weekly homework set on Show My Homework	Weekly homework set on Show My Homework	Weekly homework set on Show My Homework	Weekly homework set on Show My Homework	Weekly homework set on Show My Homework
	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics
8	Ratio and Scale.	Collecting & Representing Data.	Brackets, Equations &	Fractions & Percentages	Angles in parallel lines &	The data handling cycle
U	Multiplicative change.	Probability	Inequalities.	Standard index form	Polygons.	Pythagoras & Trigonometry
	Multiplying & Dividing Fractions.	Nets, construction & Loci.	Sequences	Number sense	Area of Trapezia & Circles.	Measures of location &
	Working in Cartesian Plane.	Life Skills (Money Management).	Indices		Line symmetry & reflection.	Dispersion
			Units & Compound Measure	Sequencing:		
	Sequencing:	Sequencing:		Convert between fractions,	Sequencing:	Sequencing:
	Ratio notation.	Collect data in a tally/frequency	Sequencing:	decimals & percentages.	Finding missing angles on a line,	Draw & interpret a bar chart.
	Simplifying & comparing ratio.	tables.	Expand a single bracket	Find percentages using 10%, 5%	around a point & in a triangle.	Draw & interpret a pictogram.
	Ratio in the form 1:n.	Design a questionnaire.	Solve 1 step equations	etc	Identify different types of	Interpret pie chart (equal
	Dividing an amount by a ratio.	Collect data in a grouped	Expand single brackets &	Order fractions, decimals &	triangles.	segments)
	Compound ratio.	frequency table.	simplify.	percentages.	Complete simple tessellations.	Draw & interpret dual bar
	Parts of a circle.	Design, complete and use two	Solve 2 step equations	Find percentages of an amount	Find angles in a polygon.	charts.
	Area & circumference of a circle.	way tables.	Form and use expressions,	using a calculator.	Recognise vertically opposite	Bar & interpret bar line graphs.
	Area & perimeter of arcs.	Identify correlation & draw a	formulae & identifies.	Represent one amount as a	angles.	Interpret composite bar charts.
		line of best fit.	Form & solve equations	percentage of another.	identify quadrilaterals based on	calculate angles to draw a ple
	Reading scales and maps.	comment on	Expand binomials	a percentage of an amount	Find the angle sum of any	Represent data in a stem & leaf
	shappes	correlation/relationshin	Solve equations with brackets &	Find the original amount given a	nolvgon	diagram
	Identifying & such scale factor	between variables.	unknowns on both sides.	percentage.	Construct line & angle bisectors	Identify and discuss misleading
	on mans or diagrams	Use line of best fit estimate.	Introduce solving simultaneous	Use decimal multiplier to effect	Use the properties of 'special'	statistics.
	Problem solving involving scale.	Interpolation & Extrapolation	graphically & algebraically	percentage change.	triangles and quadrilaterals to	Compare data with back-back
	Use of length, area & volume	from line of best fit.	Factorise a quadratic.	Repeated percentage inc	obtain missing angles.	stem & leaf diagrams.
	scale factors for similar shape.		Begin to solve quadratics.	Reverse percentages.	Calculate interior & exterior	Draw a box plot from a
		List outcomes of an event.	Form & solve equations		angles.	cumulative frequency graph &
	Use of diagrams to explain	Calculate probabilities from	involving ratio.	Recognise and evaluate positive	Construct perpendicular from	use to compare data.
	fractions.	simple events.		and negative powers of 10.	point to a line.	
		Sample space diagrams.	Continue sequences by + - x ÷		Circle theorems.	





Use of number line with unit fractions. X and ÷ fractions by integers. X and ÷ fractions by fractions. Problem solving in real-life. X & ÷ using mixed numbers. Plot coordinates in 4 quadrants. Identify equations of vertical & horizontal lines. Plot linear graphs. Identify gradient and y- intercept. Plot quadratic graphs. Investigate gradient of parallel & perpendicular lines. Length of a line segment. Interpret straight line graphs to solve simultaneous equations. Analyse quadratics to identify roots & turning point. Recognise the form of quadratic, cubic & reciprocal graphs.	Write lists of permutations for combined events. Use Venn diagrams & set notation to calculate probability. Complete a given sample space using it to calculate probabilities. Understand relative frequency as an estimate of probability. Product rule for counting. Use of Venn diagrams to calculate probability. Compound events, simple tree diagrams. Non-replacement and conditional probability. Name common 3D shapes. Sketch and construct nets. Calculate surface areas. Scale drawings & simple bearings. Locus according to a simple rule. Loci & construction complex rules. Understanding & managing debt. Calculating pay & exploring loans. Financial risk & security. Future of money.	Generate sequences using the nth term. Find the nth term of a linear sequence. Expand into more complex rules Find the nth term of a simple quadratic sequence. Use the nth term to find a larger terms. Use the nth term to decide if a number is in the sequence. Use a quadratic nth term rule to generate a sequence. Know squares and roots to 15 ² . Know cube and cube roots to 5 ³ . Recognise & evaluate higher powers. Write expression using powers Use index laws for x ÷ & (). Simplify problems involving indices. Use powers to simplify expressions. Substitute numbers into expressions involving powers. Understand zero power. Use negative powers. Use simple fractional powers. Metric conversions e.g. currency. Use compound measure. Convert between area and volume measures. Distinguish formula by considering dimensions.	Convert between standard form and normal numbers for small & large numbers. Order and compare numbers in standard form. Solve x & \pm problems in standard form. Use standard form in problem solving. Begin to manipulate answers given as surds. Mental strategies for + Round to nearest 10, 100, 100. Order of operations Round to decimal places Mental strategies for x & \pm including decimals. Round to significant figures. Recognise and identify error intervals. Recognise the impact round has on the accuracy of an answer. Recognise and use reciprocals.	Use of interior & exterior angles to obtain the number of sides of a polygon. Recognise and use angles in parallel lines. Use formulae to find the area of squares, rectangles & triangles. Calculate volume by counting cubes. Volume of a cuboid. Area of compound shapes involving squares, rectangles and triangles. Use formulae to find the area of rhombuses, parallelograms & trapeziums. Calculate the area of a circle. Area of compound shapes involving circles. Area of sectors. Volume of a prism. Problem solving involving area. Area of circles and sectors in terms of Pi. Application of upper & lower bounds on area. Draw lines of symmetry. Reflect shapes in x = y = and describe reflections in x = y=. Carry out single transformations enlargements, reflections, translations & rotations. Define quadrilaterals based on symmetry & diagonal properties	Use Pythagoras theorem to identify missing sides of a right- angled triangle. Use Pythagoras in 3D. Identify sides of a right angle triangle. Use trigonometry to find missing sides & angles in right-angled triangles. Apply Trigonometry to real-life problems.
Assessments:	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:
End of block WIN/FBI sheet	End of block WIN/FBI sheet	End of block WIN/FBI sheet	End of block WIN/FBI sheet	End of block WIN/FBI sheet	End of block WIN/FBI sheet
(Approximately every 2 weeks)	(Approximately every 2 weeks) End of Autumn terms	(Approximately every 2 weeks)	(Approximately every 2 weeks)	(Approximately every 2 weeks)	(Approximately every 2 weeks) End of Summer terms
	Assessment		End of Spring terms assessment		assessment
Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:





	Homework:	Homework:	Homework:	Homework:	Homework:	Homework:
	Weekly homework set on Show	Weekly homework set on Show	Weekly homework set on Show	Weekly homework set on Show	Weekly homework set on Show	Weekly homework set on Show
	My Homework	My Homework	My Homework	My Homework	My Homework	My Homework
	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics
Q	Basic Number,	Number	Algebra	Number	Algebra	Algebra
J	Basic algebra,	Data Handling	Data Handling	Algebra	Number	Data Handling
	Shape	Shape	Shape	Geometry	Geometry	Geometry
			Probability		Data Handling	-
	Sequencing:	Sequencing:		Sequencing:		Sequencing:
	Place Value, 4 operations, Types	Scales/charts, Time, Order of	Sequencing:	Finding a % non-calc and calc	Sequencing:	Straight line graphs, Distance-
	of number, Powers, Factors,	Operations, Negative Numbers,	Forming Expressions, Forming &	methods, % increase/ decrease,	Sequences, Quadratic	Time graphs, Quadratic / Cubic /
	Multiples, HCF/LCM, Indices,	Fractions, FDP, 4 operations	Solving Equations, Changing	Rounding & Estimating,	Sequences, Coordinates,	Reciprocal / Exponential graphs,
	Standard form.	with fractions & Mixed numbers,	subject, Laws of Indices,	Proportion, Ratio, Expressing	Straight line Graphs.	Inequalities, Substitution,
		Round & Estimate, Bounds, 4	Expanding quadratics, Factorise	Fractions, 4 rules of fractions,		Solving equations, Change of
	Function machines, Simplifying	operations with numbers in	quadratics, Algebraic fractions,	FDP, Compound Units, Similar	Negative Numbers, %	Subject.
	expressions, Substitution,	Standard Form, Recurring	Simultaneous Equations.	Shapes, Direct Proportion,	increase/decrease, Reverse %.	
	Expanding, Factorising,	Decimals.		Inverse Proportion, Growth &		Relative frequencies, Two-way
	Equations, Change of subject,		Averages and Range from a list	Decay, Bounds, Gradient of a	Parts of a circle, area of a circle,	tables, Tree diagrams for
	Laws of Indices.	Sampling, Grouped Frequency,	& frequency table, Two-way	straight line, Surds.	circumference, Understanding &	independent & dependent
		Basic Diagrams & Graphs,	tables, Estimating averages.		using vectors.	events, Graphical
	Names of 2D&3D shapes,	Comparing data, Cumulative		Simplifying expressions,		transformations, Trigonometric
	Area Volume Surface Area	Frequency, Box Plots, and	Line & rotational symmetry,	Substitution, Solving Equations,	from a table. Histograms, Averages	Graphs.
	Area, volume, surface Area,	Histograms.	Rearings Loci & Constructions	Subject Laws of Indices	from a table, Histograms.	Angle properties Angles in
	Similarity	Angles & properties Angles in a	Plans & elevations Pythagoras	Quadratic Factorising		triangles Angles in nolygons
	Similarity.	triangle Angles in nolygons	Trigonometry	Simultaneous Equations		Circles Circle theorems
		Circles. Circle theorems.	ingeneriet y.	Gradient of a straight line.		
		· · · · · · , · · · · · · · · · · · · ·	Probability Scales, Probabilities,	Quadratic formula, Complete		
			Probability from 2 way tables,	the square.		
			Tree diagrams for independent /			
			dependent events.	Constructions, Plans &		
				elevations, Scales, Pythagoras,		
				Trigonometry, Area of triangle		
				using sine, Sine rule, Cosine rule.		
	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:
	WIN/FBIs on Number	WIN/FBIs on Number	WIN/FBIs on Averages	WIN/FBIs on Number	WIN/FBIs on Algebra / Number	WIN/FBIs on Algebra
	WIN/FBIs on Algebra	WIN/FBIs on Data Handling /	WIN/FBIs on Shape / Probability	WIN/FBIs on Algebra /	WIN/FBIs on Geometry / Data	WIN/FBIs on Data Handling /
	WIN/FBIs on Shape	Shape	End of Term Assessment, QLA	Geometry	Handling	Geometry
	End of Term Assessment, QLA	End of Term Assessment, QLA	and Next Steps Therapy	End of Term Assessment, QLA	End of Term Assessment, QLA	End of Term Assessment, QLA
	Envictore ant	and Next Steps Inerapy	Fundahan anta	and wext Steps Inerapy	and Next Steps Therapy	and wext Steps Therapy
	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:





	Homework:	Homework:	Homework:	Homework:	Homework:	Homework:
	Weekly homework set on Show	Weekly homework set on Show	Weekly homework set on Show	Weekly homework set on Show	Weekly homework set on Show	Weekly homework set on Show
		Ny Homework	Ny Homework		Curriculum Tenico	
10	Curriculum Topics					
TO	Basic Number,	Number Data Handling	Algebra Data Handling	Algebra	Algebra	Algebra Data Handling
_	Shano			Algebra	Geometry	
	Shape	Shape	Probability	Geometry	Data Handling	Geometry
	Sequencing:	Sequencing	Trobubility	Sequencing	Dutu Hundhing	Sequencing
	Place Value 4 operations Types	Scalos/charts Time Order of	Sequencing	Sequencing.	Sequencing:	Straight line graphs Distance
	of number, Dowers, Easters	Operations Negative Numbers	Forming Expressions Forming &	mothods % increase/ decrease	Sequencing.	Time graphs, Quadratic / Cubic /
	Multiples HCE/LCM Venn	Eractions EDP 4 operations	Solving Equations Changing	Bounding & Estimating	Sequences, Quadratic	Reciprocal / Exponential graphs
	diagrams for HCE/LCM Indices	with fractions & Mixed numbers	subject Laws of Indices	Proportion Ratio Expressing	Sequences, Coordinates,	Inequalities Quadratic
	Standard form.	Round & Estimate, Bounds, 4	Expanding quadratics, Eactorise	Fractions, 4 rules of fractions	Straight line Graphs,	inequalities, Substitution.
		operations with numbers in	guadratics. Algebraic fractions.	FDP. Compound Units. Similar	Composite & Inverse	Solving equations. Change of
	Function machines, Simplifying	Standard Form, Convert	Simultaneous Equations both	Shapes, Direct Proportion,	Functions.	Subject.
	expressions, Substitution,	Recurring Decimals to fractions,	linear and one non-linear.	Inverse Proportion, Growth &		-
	Expanding, Factorising,	Surds & Rationalising, Max &		Decay, Bounds, Gradient of a	Negative Numbers, %	Relative frequencies, Two-way
	Equations, Change of subject,	Min value of a calculation when	Averages and Range from a list	straight line, Surds.	increase/decrease, Reverse	tables, Tree diagrams for
	Laws of Indices, Change subject	numbers have been rounded,	& frequency table, Two-way		%.	independent & dependent
	where subject occurs twice,	Direct & Inverse proportion.	tables, Estimating averages.	Simplifying expressions,		events, Graphical
	Expand 3 or more brackets,			Substitution, Solving Equations,	Parts of a circle, area of a	transformations, Trigonometric
	Factorise quadratic with	Sampling, Grouped Frequency,	Line & rotational symmetry,	Forming Equations, Change of	circle. circumference.	Graphs.
	coefficient of x greater than 1	Basic Diagrams & Graphs,	Tessellations, Transformations,	Subject, Laws of Indices, more	Understanding & using	
	and solve the quadratic.	Comparing data, Cumulative	Combined Transformations,	complex Fractional Indices, 4	vectors Vectors for	Angle properties, Angles in
		Frequency, Box Plots,	Bearings, Loci & Constructions,	rules of numbers in Standard	Geometric arguments &	triangles, Angles in polygons,
	Names of 2D&3D snapes,	Histograms, compare data using	Plans & elevations, Pythagoras,	form, Quadratic Factorising,	nroof	Circles, Circle theorems, Proof of
	Area Volumo Surface Area	box plots.	Puthagaras Trigonomotry Aroa	Gradient of a straight line	proof.	circle theorems.
	including Frustums of cones		of triangle using Sine	Gradient of a point on a curve	Champ & Loof dia amount	
	Angle Properties Congruence &	Angles & properties, Angles in a	or mangle using sine.	Quadratic formula Complete	Stem & Lear diagrams,	
	Similarity.	Circles Circle theorems Preef of	Probability Scales, Probabilities,	the square. Use of iteration.	Averages from a table,	
	china nayi	circle theorems, Similar Shapos	Probability from 2 way tables.	Functions.	Histograms.	
		& links between sides and areas	Tree diagrams for independent /			
		/ volumes	dependent events, Conditional	Constructions, Plans &		
		,	probability, Sampling including	elevations, Scales, Pythagoras,		
			Stratified.	Trigonometry, Area of triangle		
				using sine, Sine rule, Cosine rule,		
				Graphs of Trigonometric		
				functions.		
	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:
	WIN/FBIs on Number	WIN/FBIs on Number	WIN/FBIs on Averages	WIN/FBIs on Number	WIN/FBIs on Algebra / Number	WIN/FBIs on Algebra
	WIN/FBIs on Algebra	WIN/FBIs on Data Handling /	WIN/FBIs on Shape / Probability	WIN/FBIs on Algebra /	WIN/FBIs on Geometry / Data	WIN/FBIs on Data Handling /
	WIN/FBIs on Shape	Shape		Geometry	Handling	Geometry





	End of Term Assessment, QLA and Next Steps Therapy	End of Term Assessment, QLA and Next Steps Therapy	End of Term Assessment, QLA and Next Steps Therapy	End of Term Assessment, QLA and Next Steps Therapy	End of Term Assessment, QLA and Next Steps Therapy	End of Term Assessment, QLA and Next Steps Therapy
	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:
	Homework:	Homework:	Homework:	Homework:	Homework:	Homework:
	Weekly homework set on Show My Homework					
11	Curriculum Topics Exam Preparation					
	Sequencing:	Sequencing:	Sequencing:	Sequencing:	Sequencing:	Sequencing:
	Bespoke lessons based on QLA					
	of end of yr10 assessment	of end of term 1 assessment	of end of term 2 assessment	of end of term 2 assessment	of end of term 4 assessment	of end of term 4 assessment
	Assessments:	Assessments: Full GCSE exam series	Assessments:	Assessments: Full GCSE Exam series	Assessments: GCSE Exams paper 1	Assessments: GCSE Exams Paper 2 & 3
	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:
	Homework:	Homework:	Homework:	Homework:	Homework:	Homework:
	Weekly homework set on Show	Weekly GCSE exam practice	Weekly GCSE exam practice			
	My Homework	My Homework	My Homework	My Homework	papers	papers