

## Curriculum Assessment Map

Year 10 Foundation	Inte	nt	Implementation		Impact	
Term 1 topics	Taught curriculum (teacher Led)	Learned curriculum (student Led)	Key skills demonstrated	Suggested wider activities including extra-curricular opportunities	Summative assessment Title/type	Assessment criteria
1	Indices	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Use positive integer powers and associated real roots (square, cube and higher) Recognise powers of 2, 3, 4, 5 Calculate with roots and with integer indices	Maths club Puzzles Maths in real life Maths Trip Wider applications of maths	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
2	Pythagoras	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Know the formula for Pythagoras' Theorem $a^2+b^2=c^2$ Apply it to find length in right angled triangles in two dimensional figures	Maths club Puzzles Maths in real life Trip Wider applications of maths	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
3	Standard form	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Understand and use place value (e.g. when working with very large or very small numbers) Calculate with and interpret standard form $A \times [10]^n$ where $1 \le A < 10$ and $n$ is an integer	Maths club Puzzles Maths in real life Maths Trip Wider applications of maths.	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



4	Calculating with percentages	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Solve problems involving percentage change, including: percentage increase / decrease problems original value problems simple interest, including in financial mathematics problems set in context using a multiplier	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
5	Measures and bounds	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Apply and interpret limits of accuracy Use standard units of measure and related concepts (length, area, volume / capacity, mass, time, money etc) Use standard units of mass, length, time, money and other measures (including standard compound measures) using decimal quantities where appropriate Change freely between related standard units (e.g. time, length, area, volume / capacity, mass) and compound units (e.g. speed, rates of pay, prices, density, pressure) in numerical and algebraic contexts Use compound units such as speed, rates of pay, unit pricing, density and pressure	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
6	Statistical measures	Maths genie website. Corbett maths. Maths box. Century tech.	Interpret, analyse and compare the distributions of data sets from univariate empirical distributions through :	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full	AO1 – Recall and use knowledge of the prescribed content



		Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	appropriate measures of central tendency (median, mean, mode and modal class) spread (range, including consideration of outliers) Apply statistics to describe a population Infer properties of populations or distributions from a sample, whilst knowing the limitations of sampling	topic/progress list available on RAG worksheet	AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
7	Congruence	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Use the basic congruence criteria for triangles (SSS, SAS, ASA, RHS) Apply angle facts, triangle congruence, similarity and properties of quadrilaterals to conjecture and derive results about angles and sides including Pythagoras' Theorem and the fact that the base angles of an isosceles triangle are equal, and use known results to obtain simple proofs	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



Year 10 Foundation	Int	tent	Impleme	ntation	Impact	
Term 2 topics	Taught curriculum (teacher Led)	Learned curriculum (student Led)	Key skills demonstrated	Suggested wider activities including extra-curricular opportunities	Summative assessment Title/type	Assessment criteria
1	Similarity	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Apply and use the concepts of congruence and similarity, including the relationships between lengths in similar figures		Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
2	Trigonometry	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Know and use the   trigonometric ratios   sinθ=   opposite/hypotenuse ,   cosθ=   adjacent/hypotenuse and   tanθ= opposite/adjacent   Apply them to find angles   and lengths in right-angled   triangles in two   dimensional figures   Compare lengths using   ratio notation		Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



3	Perimeter and area	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Identify properties of the faces, surfaces, edges and vertices of: cube, cuboids, prisms, cylinders, pyramids, cones and spheres Calculate the perimeter of a 2D shape and composite shapes Know and apply formulae to calculate area of: triangles parallelograms trapezia Calculate the area of composite shapes Find the surface area of pyramids and composite solids	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
4	Circumference and area	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Identify and apply circle definitions and properties, including centre, radius, chord, diameter, circumference, tangent. arc. sector and segment Know and use the formulae Circumference $=2\pi r = \pi d$ Area $= \pi r^2$ Calculate the perimeter of 2D shapes including circles and composite shapes Calculate areas of circles and composite shapes Calculate surface area of spheres, cones and composite solids Calculate are lengths, angles and areas of sectors of circles Calculate exactly with multiples of $\pi$	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



5	Algebra recap and extension	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Understand and use the concepts and vocabulary of expressions, equations, formulae, identities, inequalities, terms and factors (review of Year 9) Simplify and manipulate algebraic expressions (including those involving surds) by: collecting like terms multiplying a single term over a bracket taking out common factors Deduce expressions to calculate the nth term of a linear sequence Solve linear equations in one unknown algebraically including those with the unknown on both sides of the equation (review of Year 9)	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
6	Graphs recap and extension	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Solve geometrical problems on co-ordinate axes Use the form $y=mx+c$ to identify parallel lines Find the equation of the line through two given points, or through one point with a given gradient Identify and interpret gradients and intercepts of linear functions graphically and algebraically	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



Year 10 Foundation	Intent		Implementation		Impact	
Term 3 topics	Taught curriculum (teacher Led)	Learned curriculum (student Led)	Key skills demonstrated	Suggested wider activities including extra-curricular opportunities	Summative assessment Title/type	Assessment criteria
1	Simultaneous equations	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Solve two simultaneous equations in two variables (linear / linear) algebraically Find approximate solutions using a graph Translate simple situations or procedures into algebraic expressions or formulae; derive two simultaneous equations Solve the equations and interpret the solution		Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



2	Properties of polygons	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Derive and use the sum of angles in a triangle (e.g. to deduce and use the angle sum in any polygon, and to derive properties of regular polygons) Derive and apply the properties and definitions of: special types of quadrilaterals, including square, rectangle, parallelogram, trapezium, kite and rhombus and triangles and other plane figures using appropriate language	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
3	Real-life graphs	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Plot and interpret graphs (including reciprocal graphs) and graphs of non-standard functions in real contexts, to find approximate solutions to problems such as simple kinematics problems involving distance, speed and acceleration Interpret the gradient of a straight line as a rate of change	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
4	2D representations of 3D shapes	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Construct and interpret plans and elevations of 3D shapes	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



	Probability	Maths genie website.	Record, describe and	Homework each week to	AO1 – Recall and use
_	FIODADINCY	Corbett maths.	analyse the frequency of	monitor the progress.	knowledge of the
5		Maths box.	outcomes of probability	45 Marks of exam style	prescribed content
		Century tech.	experiments using tables	questions in the final week	AO2-Select and apply
		Collins AQA GCSE .maths.	and frequency trees	of each term. Full	mathematical methods in a
		Student book.	(review of Year 9)	topic/progress list available	range of contexts.
		Century Tech extra	Apply the property that the	on RAG worksheet	AO3- Interpret and analyse
		resources	probabilities of an		problems and generate
		Oak National academy	exhaustive set of outcomes		strategies to solve them
		,	sum to one (review of Year		5
			9)		
			Apply the property that the		
			probabilities of an		
			exhaustive set of mutually		
			exclusive events sum to one		
			(review of Year 9)		
			Construct theoretical		
			possibility spaces for single		
			and combined experiments		
			with equally likely		
			outcomes and use these to		
			calculate theoretical		
			probabilities (review of Year		
			9)		
			Apply ideas of randomness,		
			fairness and equally likely		
			events to calculate		
			expected outcomes or		
			multiple future		
			experiments		
			Relate relative expected		
			frequencies to theoretical		
			probability, using		
			appropriate language and		
			Lindorstand that ompirical		
			unbiased samples tend		
			towards theoretical		
			nrobability distributions		
			with increasing sample size		
			Enumerate sets and		
			combinations of sets		
			systematically using tables,		



	grids, Venn diagrams and tree diagrams Calculate the probability of		
	dependent combined		
	diagrams and other		
	representations, and know the underlying assumptions		

## Curriculum Assessment Map

Year 10 Higher	Intent		Implementation		Impact	
Term 1 topics	Taught curriculum	Learned curriculum	Key skills	Suggested wider	Summative	Assessment criteria
	(teacher Led)	(student Led)	demonstrated	activities including	assessment	
				extra-curricular	Title/type	
				opportunities		
1	Calculating with percentages	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Solve problems involving percentage change, including : percentage increase / decrease problems original value problems simple interest, including in financial mathematics problems set in context using a multiplier	Maths club Puzzles Maths in real life Maths Trip Wider Applications of maths club Etc	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
2	Measures and bounds	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Apply and interpret limits of accuracy including upper and lower bounds Use standard units of measure and related concepts (length, area, volume / capacity, mass, time, money etc) Use standard units of mass, length, time, money and other measures (including standard compound measures) using decimal quantities where appropriate Change freely between related standard units (e.g. time, length, area, volume / capacity, mass) and compound units (e.g. speed, rates of pay, prices, density, pressure) in numerical and algebraic contexts	Maths club Puzzles Maths in real life Maths Trip Wider applications of maths	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them

3	Surds	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Calculate exactly with surds Simplify surd expressions involving squares (eg $\sqrt{12}=\sqrt{(4\times3)}=\sqrt{4}\times\sqrt{3}=2\sqrt{3}$ ) and rationalise denominators Recognise and use simple geometric progressions (rn where n is an integer and r is a surd)		Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
4	Statistics	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Construct and interpret diagrams for grouped discrete data and continuous data, i.e. histograms with equal and unequal class intervals and cumulative frequency graphs, and know their appropriate use Interpret, analyse and compare distributions of data sets from univariate empirical distributions through box plots interpret, analyse and compare the distributions of data sets from univariate empirical distributions through consideration of outliers, quartiles and inter-quartile range Draw estimated lines of best fit Make predictions Interpolate and extrapolate apparent trends whilst knowing the dangers of doing so Infer properties of populations or distributions from a sample, whilst knowing the limitations of sampling.	Maths club Puzzles Maths in real life Trip Wider applications of maths	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them

5	Indices	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Use positive integer powers and associated real roots (square, cube and higher) Recognise powers of 2, 3, 4, 5 5 Estimate powers and roots of any given positive number Calculate with roots and with integer and fractional indices		Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
6	Properties of polygons	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Derive and use the sum of angles in a triangle (e.g. to deduce and use the angle sum in any polygon, and to derive properties of regular polygons) Derive and apply the properties and definitions of: special types of quadrilaterals, including square, rectangle, parallelogram, trapezium, kite and rhombus and triangles and other plane figures using appropriate language (including knowing names and properties of isosceles, equilateral, scalene, right-angled, acute-angled, obtuse-angled triangles.	Maths club Puzzles Maths in real life Trip Wider applications of maths	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them

Year 10 Higher	Intent		Implementation		Impact	
Term 2 topics	Taught curriculum (teacher Led)	Learned curriculum (student Led)	Key skills demonstrated	Suggested wider activities including	Summative assessment	Assessment criteria
				extra-curricular opportunities	Title/type	
1	Congruence and Similarity	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Use the basic congruence criteria for triangles (SSS, SAS, ASA, RHS) Apply angle facts, triangle congruence, similarity and properties of quadrilaterals to conjecture and derive results about angles and sides including the fact that the base angles of an isosceles triangle are equal, and use known results to obtain simple proofs Apply and use the concepts of congruence and similarity, including the relationships between lengths, areas and volumes in similar figures	Maths club Puzzles Maths in real life Trip Wider applications of maths	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
2	Pythagoras' Theorem and Trigonometry	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources	Know the formula for Pythagoras' Theorem $a2 + b2 = c2$ Apply it to find lengths in right angled triangles in two dimensional figures Know and use the		Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate

			sin $\theta$ =opposite/hypotenuse, $\cos \theta$ = adjacent/hypotenuse, $tan \theta$ = opposite/adjacent		
			in right angled triangles in		
			two dimensional figures		
			Know the exact values of		
			$45^{\circ}$ 60° and 90°		
			Know the exact value of		
			tan $\theta$ for $\theta$ =0°, 30°, 45° and		
			60°		
			Apply angle facts, triangle		
			congruence, similarity and		
			to conjecture and derive		
			results about angles and		
			sides, including Pythagoras		
			Theorem, and use known		
			results to obtain simple		
			proofs		
			Compare lengths using		
			to trigonometric ratios		
	Probability	Maths genie website.	Apply ideas of randomness,	Homework each week to	AO1 – Recall and use
2	riobability	Corbett maths.	fairness and equally likely	monitor the progress.	knowledge of the
5		Maths box.	events to calculate	45 Marks of exam style	prescribed content
		Century tech.	expected outcomes or	questions in the final week	AO2-Select and apply
		Collins AQA GCSE .maths.	multiple future	of each term. Full	mathematical methods in a
		Century Tech extra	Relate relative expected	on RAG worksheet	AO3- Interpret and analyse
		resources	frequencies to theoretical	on the worksheet	problems and generate
		Oak National academy	probability, using		strategies to solve them
		· · ·	appropriate language and		-
			the 0 – 1 probability scale		
			Understand that empirical		
			unbiased samples tend		
			nrobability distributions		
			with increasing sample size		

4	Volume	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Enumerate sets and combinations of sets systematically using tables, grids, Venn diagrams and tree diagrams Calculate the probability of independent and dependent combined events, including using tree diagrams and other representations, and know the underlying assumptions Know when to add and when to multiply two or more probabilities Calculate and interpret conditional probabilities through representation using expected frequencies with two-way tables, tree diagrams and Venn diagrams Compare lengths, areas and volumes using ratio notation Make links to similarity and scale factors Know and apply the formulae to calculate the volume of cuboids and other right prisms (including cylinders) Calculate the volume of spheres, pyramids, cones and composite solids Calculate exactly with	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
			multiples of $\pi$	 	
	Algebra: introduction	Maths genie website.	Simplify and manipulate	Homework each week to	AO1 – Recall and use
5	to guadratics and	Corbett maths.	algebraic expressions by:	monitor the progress.	knowledge of the
-	rearranging formulae	Waths box.	expanding products of two	45 Marks of exam style	prescribed content
	rearranging formulae	Century tecn.	binomials factorising quadratic	questions in the final week	AU2-Select and apply
		Comms AQA GCSE .maths.	ractorising quadratic	of each term. Full	mathematical methods in a
		Student book.	expressions of the form $x^2$	topic/progress list available	range of contexts.
		Century lech extra	+ bx + c including the	on KAG worksheet	
		resources	difference of two squares		

	Oak National academy	simplifying expressions involving sums, products and powers, including the laws of indices Understand and use standard mathematical formulae		AO3- Interpret and analyse problems and generate strategies to solve them
		Rearrange formulae to change the subject		

Year 10 Higher	Intent		Implementation		Impact	
Term 3 topics	Taught curriculum (teacher Led)	Learned curriculum (student Led)	Key skills demonstrated	Suggested wider activities including extra-curricular	Summative assessment Title/type	Assessment criteria
				opportunities		

1	Algebra: quadratics, rearranging formulae and identities	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Simplify and manipulate algebraic expressions (including those involving surds) by: expanding products of two or more binomials factorising quadratic expressions of the form $x^2$ + $bx + c$ including the difference of two squares factorising quadratic expressions of the form $ax^2 + bx + c$ simplifying expressions involving sums, products and powers, including the laws of indices Understand and use standard mathematical formulae Rearrange formulae to change the subject Know the difference between an equation and an identity Argue mathematically to show algebraic expressions are equivalent, and use algebra to support and construct arguments and	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
			proofs		
2	Linear and quadratic equations and their graphs	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Solve linear equations in one unknown algebraically including those with the unknown on both sides of the equation Find approximate solutions using a graph Solve quadratic equations algebraically by factorising Find approximate solutions using a graph Translate simple situations	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them

			algebraic expressions or formulae; derive an equation and the solve the equation and interpret the solution		
3	Simultaneous equations	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Solve two simultaneous equations in two variables (linear / linear or quadratic/linear) algebraically Find approximate solutions using a graph including the approximate solution of a quadratic equation by drawing a straight line to intersect with another quadratic equation Translate simple situations or procedures into algebraic expressions or formulae; Derive two simultaneous equations Solve the equation and interpret the solution	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
4	Sketching graphs	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Recognise, sketch and interpret graphs of linear functions, quadratic functions, simple cubic functions and the reciprocal function $y=1/x$ with $x \neq 0$ (Including using the symmetry of functions)	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
5	Geometry and measures recap	Maths genie website. Corbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Solve geometrical problems on co-ordinate axes Identify, describe and construct congruent and similar shapes, including on co-ordinate axes, by considering rotation, reflection, translation and enlargement (including fractional and negative scale factors)	Homework each week to monitor the progress. 45 Marks of exam style questions in the final week of each term. Full topic/progress list available on RAG worksheet	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them

	Describe the changes and		
	Describe the changes and		
	invariance achieved by		
	combinations of rotations,		
	reflections and translations		
	Find the surface area of		
	pyramids and composite		
	solids		
	Calculate surface area of		
	spheres, cones and		
	composite solids		
	Calculate the volume of		
	spheres, pyramids, cones		
	and composite solids		
	Calculate arc lengths,		
	angles and areas of sectors		
	of circles		



## Curriculum Assessment Map

Year 11	Intent		Implementa	ition	Impact	
Foundation						
Year 11 Foundation Half term1 topics	Inte Taught curriculum (teacher Led) Volume	nt Learned curriculum (student Led) Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech	Implementa   Key skills demonstrated   Compare lengths, areas and volumes using ratio notation: Scale factors: Make links to similarity.	Suggested wider activities including extra-curricular opportunities Maths club Puzzles Maths in real life Trip Wider applications of maths	Impact Summative assessment Title/type Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students	Assessment criteria AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of
		extra resources Oak National academy	Know and apply the formula to calculate the volume of cuboids and other right prisms (including cylinders). Calculate the volume of spheres,		self-evaluation through RAG Mock exam at the end of the term.	contexts. AO3- Interpret and analyse problems and generate strategies to solve them



	pyramids, cones		
	and composite		
	solids.		
	including frustums		
	<u></u>		
	Calculate exactly		
	with multiples of		
	<u>`pi`</u>		



2	Algebra: Quadratics rearranging the formulae and identities	website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book. Oak National academy	manipulate algebraic expressions (including those involving surds) by:expanding products of two or more binomials:factorisi ng quadratic expressions of the form $ax^2 + bx + c$ including the difference of two squares.Factorisi ng quadratic expressions of the form $ax^2 + bx + c$ simplifying expressions	Puzzles Maths in real life Trip Wider applications of maths	paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
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			involving sums, products and powers, including the laws of indices			
3	Algebra: Quadratics rearranging the formulae and identities	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book. Oak National academy	Understand and use standard mathematical formulae. including use of formulae from other subjects in words and using symbols. Rearrange formulae to change the subject.	Maths club Puzzles Maths in real life Trip Wider applications of maths	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



	Know the		
	difference between		
	an equation and		
	an identity		
	Argue		
	mathematically to		
	show algebraic		
	expressions are		
	equivalent, and		
	<u>use algebra to</u>		
	support and		
	<u>construct</u>		
	arguments and		
	proofs		
	Where		
	appropriate,		
	interpret simple		
	expressions as		
	functions with		



inputs and		
outputs		
Interpret the		
reverse process		
as the 'inverse		
function'		
linda un un fi din a		
Interpret the		
succession of		
two functions as		
a composite		
function'		
'understand and		
use function		
notation: `f/x)`		
$fg(x)$ , $f^{-1}(x)$ is		
expected at		
higher tier		



4	Scatter Graph	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book. Oak National academy	Use and interpret scatter graphs of bivariate data Recognise correlation <u>and</u> <u>know that it does</u> <u>not indicate</u> <u>causation</u>	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and
			Draw estimated lines of best fit .Make predictions Interpolate and extrapolate apparent trends whilst knowing the	end of the term.	generate strategies to solve them



			dangers of doing <u>so</u> know and understand the terms positive correlation, negative correlation, no correlation, weak correlation and strong correlation		
5	Numerical Methods	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book. Oak National academy	Find approximate solutions to equations numerically using iteration	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts.



year 11F Curriculum Assessment

				Mock exam at the end of the term.	AO3- Interpret and analyse problems and generate strategies to solve them
6	Holiday				
7	equation of a circle	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book. Oak National academy	Recognise and use the equation of a circle with centre at the origin. Find the equation of a tangent to a circle at a given point.	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



year 11F Curriculum Assessment

8	Further equations and graphs	Solve linear equations in one unknown algebraically <u>including those</u> <u>with the unknown</u> <u>on both sides of</u> <u>the equation</u>	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation	
		Find approximate solutions using a graph	through RAG Mock exam at the end of the term.	
		Solve quadratic equations (including those that require rearrangement) algebraically by factorising, by		



	completing the		
	square and by		
	using the		
	quadratic formula		
	Find approximate		
	solutions using a		
	aroph		
	grapn		
	Recognise, sketch		
	and interpret		
	graphs of linear		
	and quadratic		
	functions		



		Identify and	Homework past	
	Further equations and graphs	interpret roots,	paper for two	
9		intercepts and	weeks.	
		turning points of	Use of Century	
		quadratic functions	tech for	
		graphically;	homework and to	
		deduce roots	monitor progress.	
		algebraically and	Students self	
		turning points by	through RAG	
		completing the		
		<u>square.</u>	Mock exam at the	
			end of the term.	
		including the		
		symmetrical		
		property of a		
		quadratic		
		Translate simple		
		situations or		
		procedures into		
		algebraic		
		aigentaic		



	expressions or		
	<u>formulae</u>		
	derive an		
	equation, solve the		
	equation and		
	interpret the		
	solution		
	including solution		
	of geometrical		
	problems and		
	<u>problems set in</u>		
	context		



## Curriculum Assessment Map

Year 11Higher	Intent		Implementation		Impact	
Half term2 topics	Taught curriculum (teacher Led)	Learned curriculum (student Led)	Key skills demonstrated	Suggested wider activities including extra-curricular opportunities	Summative assessment Title/type	Assessment criteria
10.	Simultaneous equations	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book.	Solve two simultaneous equations in two variables (linear / linear or linear/quadratic) algebraically Find approximate solutions using a graph.		Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



11	Simultaneous equations	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Translate simplesituations orprocedures intoalgebraicexpressions orformulaeDerive twosimultaneousequations.Solve theequations andinterpret thesolution	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
			including the solution of geometrical		



year 11F Curriculum Assessment

			problems and problems set in context		
12	Mock Revision	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.		Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them


13	Mock Exam and then Christmas holiday				
14	Sketching graph	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.	Recognise, sketch and interpret graphs of linear functions, quadratic functions, <u>simple</u> <u>cubic functions</u> <u>and the</u> <u>reciprocal</u> $\frac{y = \frac{1}{x}}{\frac{y = hx}{x}}$ <u>with</u> $x \neq 0$ , exponential functions $y = kx$ for positive	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
			values of $\frac{k}{k}$ , and		



			the trigonometric functions (with arguments in degrees) $y = \sin x, y = \cos x$ and $y = \tan x$ for angles of any size		
15	Direct and inverse proportion	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.	Solve problems involving direct and inverse proportion, including graphical and algebraic representations. <u>Understand that x</u> <u>is inversely</u> <u>proportional to y</u> <u>is equivalent to x</u>	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



			is proportional to 1 y Construct and interpret equations that describe direct and inverse proportion Recognise and interpret graphs that illustrate direct and inverse proportion		
16	Inequalities	Maths genie website. Cobbett maths. Maths box. Century tech.	Solve linear inequalities in one or two variables and quadratic	Homework past paper for two weeks. Use of Century tech for	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply



	Collins AQA GCSE maths Student book.	inequalities in one variable. know the conventions of an open circle on a number line for a strict inequality and a closed circle for an included boundary.	homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
		Represent the solution set on a number line, using set notation and on a graph in graphical work the convention		



	of a dashed line		
	for strict		
	inequalities and		
	a solid line for an		
	included		
	inequality will be		
	required		



		Intent	Impler	nentation	Impact	
Half term3 topics	Taught curriculum (teacher Led)	Learned curriculum (student Led)	Key skills demonstrated	Suggested wider activities including extra-curricular opportunities	Summative assessment Title/type	Assessment criteria
47		Maths genie	Know the formula		Homework past	AO1 – Recall
17		website.	for Pythagoras'		paper for two	and use
		Maths box.	<u>Theorem</u>		weeks.	the prescribed
		Century tech.	<u>`a^2+b^2=c^2`</u>		Use of Century	content
		Collins AQA			tech for	AO2-Select
		GCSE .maths.			homework and	and apply
		Student book.				mathematical



	Century Tech extra ressources	Apply it to find angles and lengths in right angled triangles and, where possible, general triangles in two and three dimensional figures.	to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
		Know and use the trigonometric ratios		
		$\cos \theta = \frac{adjacent}{hypotenuse}$ and $\sin \theta = \frac{opposite}{hypotenuse},$		



year 11F Curriculum Assessment

		$tan \theta = rac{opposite}{adjacent}$		
15	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Know the exact values ofsin $\theta$ and cos $\theta$ =of 0°, 30° 45°, 60° and 90°Know the exact value of	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



		$\tan \theta$ for $\theta = 0^{\circ}$ ,		
		30°. 45° and 60°		
10	Dutherere	Apply apple facto		
10	theorem and	Apply angle lacts,		
	basic	triangle		
	trigonometry	congruence,		
		similarity and		
		properties of		
		quadrilaterals to		
		conjecture and		
		derive results		



	about angles and		
	sides including		
	Pythagoras'		
	Theorem and use		
	<u>known results to</u>		
	<u>obtain simple</u>		
	proofs.		
	Compare lengths		
	using ratio		
	notation: make		
	notation, <u>make</u>		
	<u>links to</u>		
	trigonometric		
	<u>ratios</u>		



year 11F Curriculum Assessment

half-term				Homework past paper for two weeks.	
				Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	
17	Growth and decay	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.	Set up. solve and interpret the answers in growth and decay problems, including compound interest and work with	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and



			general iterative processes	Mock exam at the end of the term.	generate strategies to solve them
18	Vectors	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.	Apply addition and subtraction of vectors, multiplication of vectors by a scalar, and diagrammatic and column representation of vectors		



19	Vectors	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.	Use vectors to construct geometric arguments and proofs	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	
20	Transforming functions		Sketch translations and reflections of a given function		
21	Cosine and sine rule	Maths genie website. Cobbett maths. Maths box.	Know and apply the Sine rule	Homework past paper for two weeks.	



	year 11F Curricul	um Assessment			
		Century tech. Collins AQA GCSE maths Student book	$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$ and Cosine rule $a^2 = b^2 + c^2 - 2bc \cos A$ to find unknown lengths and angles	Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	
22	Cosine and sine rule	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Know and apply = $\frac{1}{2}abs\sin C$ to calculate the area, sides or		



			angles of any triangle		
23	Circle theorems	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Apply and prove the standard circle theorems concerning angles, radii, tangents and chords and use them to prove related results. including angle at centre is equal to twice angle at circumference;	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	



	angle in a semi-circle is 90°;		
	angles in the		
	same segment		
	are equal;		
	opposite angles		
	in a cyclic		
	quadrilateral sum		
	to 180°;		
	tangent at any		
	point on a circle		
	is perpendicular		
	to the radius at		
	that point.		
	tongonto from on		
	tangents from an		
	external point are		
	equal in length;		
	the perpendicular		
	from the centre		
	to a chord		



year 11F Curriculum Assessment

			bisects the chord; alternate segment theorem		
Holiday	Holiday				
25	Gradient and rate of change	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Interpret the gradient at a point on a curve as the instantaneous rate of change Apply the concepts of average and instantaneous	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG	



			rates of change (gradients of chords and tangents) in numerical, algebraic and graphical contexts.	Mock exam at the end of the term.	
22	Gradient and rate of change	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Interpret the gradient of a straight-line graph as a rate of change		
23	Pre-calculus and area under the curve	Maths genie website. Cobbett maths.	Calculate or estimate		



	Maths box. Century tech. Collins AQA GCSE maths Student book	gradients of graphs and areas under graphs (including quadratic and other non-linear graphs) Interpret the results in cases such as distance-time graphs, velocity-time graphs and graphs in financial contexts		
Algebraic fractions	Maths genie website. Cobbett maths.	Simplify and manipulate		



	Maths box. Century tech. Collins AQA GCSE maths Student book	algebraic expressions involving algebraic fractions.		
Revision				
Revision				
Revision				
Revision June examination				
Revision and June examination				







# Curriculum Assessment Map

# Subject: Maths

Year 11 Higher	Intent		Implementation		Impact	
Half term1 topics	Taught curriculum (teacher Led)	Learned curriculum (student Led)	Key skills demonstrated	Suggested wider activities including extra-curricular opportunities	Summative assessment Title/type	Assessment criteria
1	Algebraic fractions	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra resources Oak National academy	Simplify and manipulate algebraic expressions involving algebraic fractions	Maths club Puzzles Maths in real life Trip Wider applications of maths	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self-evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



2	Algebraic fractions	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book. Oak National academy	Simplify and manipulate algebraic expressions involving algebraic fractions	Maths club Puzzles Maths in real life Trip Wider applications of maths	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
3	Trigonometry -Non right angle triangles- Sine and cosine rule	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book. Oak National academy	Know the formula for Pythagoras' Theorem `a^2+b^2=c^2`. Apply it to find length in right angled triangles and, where possible, general		Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate



year 11H Curriculum Assessment

	triangles in two and three dimensional figures	Mock exam at the end of the term.	strategies to solve them
	• Know and use the trigonometric ratios		
	$\sin \theta = \frac{opposite}{hypotenuse},$		
	$\tan \theta = \frac{opposite}{adjacent}$		
	Apply them to find angles and lengths in right-angled triangles and, where possible, general triangles in two and three		
	dimensional figures		



4	Trigonometry -Non right angle triangles- Sine and cosine rule	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book. Oak National academy	G21	• Know the exact values of sin $\theta$ and $0^{\circ}$ , $30^{\circ}$ $45^{\circ}$ , $60^{\circ}$ and $90^{\circ}$ Know the exact value of tan $\theta$ for $\theta =$ $0^{\circ}$ , $30^{\circ}$ , $45^{\circ}$ and $60^{\circ}$	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
5	Growth and decay	Maths genie website. Cobbett maths. Maths box. Century tech.	Set up, solve and interpret the answers in growth and decay problems, including compound interest <b>and</b>		Homework past paper for two weeks. Use of Century tech for homework and	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical



		Collins AQA GCSE maths Student book. Oak National academy	work with general iterative processes	to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
6	Growth and Decay				
7	Equation of a Circle	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book. Oak National academy	Recognise and use the equation of a circle with centre at the origin Find the equation of a tangent to a circle at a given point.	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



	half term holiday			
8	Further Equations and graphs	Solve linear equations in one unknown algebraically including those with the unknown on both sides of the equation. Find approximate solutions using a graph.	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG	
		<ul> <li>Solve quadratic equations (including those that require rearrangement) algebraically by factorising, by completing the square and by using the quadratic formula</li> </ul>	Mock exam at the end of the term.	



		<ul> <li>Find approximate</li> </ul>		
		solutions using a		
		graph		
		Recognise, sketch and	Homework	
	Further Equations	interpret graphs of linear	past paper for	
9	and graphs	and quadratic functions.	two weeks.	
			Use of Century	
		Identify and interpret roots,	tech for	
		intercepts and turning points	homework and	
		of quadratic functions	to monitor	
		graphically: deduce roots	progress.	
		algebraically and turning		
		argeoraicany and turning	through RAC	
1				



,	points by completing the	Mack avam at	
	points by completing the		
	square	the end of the	
		term.	
	Translate simple		
	situations or procedures		
	into algebraic expressions		
	or formulae.		
	Derive an equation, solve		
	the equation and interpret		
	the solution		



# **Curriculum Assessment Map**

Subject: Maths

Year 11Higher	In	tent	Impleme	ntation	Impact	Impact	
Half term2	Taught curriculum	Learned	Key skills	Suggested wider	Summative	Assessment	
topics	(teacher Led)	curriculum	demonstrated	activities	assessment	criteria	
		(student Led)		including	Title/type		
				extra-curricular			
				opportunities			
		Maths genie			Homework past	AO1 – Recall and	
	Revision Mock	website.			paper for two	use knowledge of	
10.		Cobbett maths.			weeks.	the prescribed	
		Maths box.				content	
		Century tech.			Use of Century	AO2-Select and	
		Collins AQA GCSE			tech for	apply	
		.maths. Student			homework and to	mathematical	
		book.			monitor progress.	methods in a	
					Students self	range of	
					evaluation	contexts.	
					through RAG	AO3- Interpret	
						and analyse	
					Mock exam at the	problems and	
					end of the term.	generate	
						strategies to	
						solve them	



	Revision Mock	Maths genie		Homework past	AO1 – Recall and
11		website.		paper for two	use knowledge of
		Cobbett maths.		weeks.	the prescribed
		Maths box.			content
		Century tech.		Use of Century	AO2-Select and
		Collins AQA GCSE		tech for	apply
		maths Student		homework and to	mathematical
		book		monitor progress.	methods in a
				Students self	range of
				evaluation	contexts.
				through RAG	AO3- Interpret
					and analyse
				Mock exam at the	problems and
				end of the term.	generate
					strategies to
					solve them



year 11H Curriculum Assessment

12	Mock Revision	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.		Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
13	Mock Exam and then Christmas holiday				
14		Maths genie website. Cobbett maths. Maths box. Century tech.	Recognise, sketch and interpret graphs of linear	Homework past paper for two weeks. Use of Century tech for	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply



maths Student book.	functions, simple cubic functions and the reciprocal	<ul> <li>Nonework and to monitor progress.</li> <li>Students self evaluation through RAG</li> <li>Mock exam at the end of the term.</li> </ul>	mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
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15	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.		Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
16	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.		Homework past paper for two weeks. Use of Century tech for homework and to monitor progress.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts.



		Students self evaluation through RAG	AO3- Interpret and analyse problems and
		Mock exam at the end of the term.	strategies to solve them


		Intent	Implementation		Impact	
Half term3 topics	Taught curriculum (teacher Led)	Learned curriculum (student Led)	Key skills demonstrated	Suggested wider activities including extra-curricular opportunities	Summative assessment Title/type	Assessment criteria
17		Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE .maths. Student book. Century Tech extra ressources	Know the formula for Pythagoras' Theorem `a^2+b^2=c^2` Apply it to find angles and lengths in right angled triangles and, where possible, general triangles in two and three dimensional figures.		Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



	Know and use the		
	trigonometric		
	<u>ratios</u>		
	adjacent		
	$\cos \theta = \frac{uujucen}{hvpotenuse}$ and		
	$\sin \theta = \frac{opposite}{1}$ ,		
	nypotenuse		
	$tan \theta = \frac{opposite}{d}$		
	adjacent		



15	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Know the exact values of sin $\theta$ and cos $\theta$ = of 0°, 30° 45°, 60°	Homework past paper for two weeks. Use of Century tech for homework and to monitor	AO1 – Recall and use knowledge of the prescribed content AO2-Select and apply mathematical
		<u>And 90</u> <u>Know the exact</u> <u>value of</u> tan $\theta$ for $\theta = 0^{\circ}$ , <u>30°, 45° and 60°</u>	progress. Students self evaluation through RAG Mock exam at the end of the term.	methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them



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16	Pythagoras	Apply angle facts,		
	basic	triangle		
trig	trigonometry	similarity and		
		properties of		
		quadrilaterals to		
		derive results		
		about angles and		
		sides including		
		Pythagoras'		
		known results to		
		obtain simple		
		proofs.		
		Compare longthe		
		using ratio		
		notation; make		
		<u>links to</u>		



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			trigonometric ratios		
				Homowork post	
half-term				paper for two	
				weeks.	
				Use of Century	
				homework and	
				to monitor progress.	
				Students self	
				through RAG	
				Mock exam at	
				the end of the	
		Maths genie	Set up, solve and	term. Homework past	AO1 – Recall
17	Growth and	website.	interpret the	paper for two	and use
	decay	Cobbett maths. Maths box.	answers in growth	weeks.	knowledge of



		Century tech. Collins AQA GCSE maths Student book.	and decay problems, including compound interest and work with general iterative processes	Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	the prescribed content AO2-Select and apply mathematical methods in a range of contexts. AO3- Interpret and analyse problems and generate strategies to solve them
18	Vectors	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.	Apply addition and subtraction of vectors. multiplication of vectors by a scalar, and diagrammatic and column representation of vectors		



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19	Vectors	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book.	Use vectors to construct geometric arguments and proofs	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	
20	Transforming functions		Sketch translations and		



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			reflections of a given function		
21	Cosine and sine rule	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Know and apply the Sine rule $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$ and Cosine rule $a^{2} = b^{2} + c^{2} - 2bc \cos A$ to find unknown lengths and angles	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	



22	Cosine and sine rule	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Know and apply $= \frac{1}{2} abs \sin C$ to calculate the area, sides or angles of any triangle		
23	Circle theorems	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Apply and prove the standard circle theorems concerning angles, radii, tangents and chords and use	Homework past paper for two weeks. Use of Century tech for homework and to monitor progress. Students self evaluation through RAG	



	them to prove	Mock exam at	
	related results.	the end of the	
		term.	
	including		
	menuumg		
	angle at centre is		
	equal to twice		
	angle at		
	circumference;		
	angle in a		
	semi-circle is 90°;		
	angles in the		
	same segment		
	are equal;		
	opposite angles		
	in a cyclic		
	quadrilateral sum		
	to 180°;		
	tangent at any		
	noint on a circle		
	is perpendicular		



			to the radius at		
			that point.		
			tangents from an		
			external point are		
			equal in length;		
			the perpendicular		
			from the centre		
			to a chord		
			bisects the		
			chord;		
			alternate		
			segment theorem		
Holiday	   Holiday				
lionady					
25	Gradient and rate	Maths genie	Interpret the	Homework past	
	of change	website.	gradient at a	paper for two	
		Cobbett maths.	J	weeks.	



		Maths box. Century tech. Collins AQA GCSE maths Student book	point on a curve as the instantaneous rate of change Apply the concepts of average and instantaneous rates of change (gradients of chords and tangents) in numerical, algebraic and graphical contexts.	Use of Century tech for homework and to monitor progress. Students self evaluation through RAG Mock exam at the end of the term.	
22	Gradient and rate of change	Maths genie website. Cobbett maths.	Interpret the gradient of a		



		Maths box. Century tech. Collins AQA GCSE maths Student book	<u>straight-line</u> graph as a rate of <u>change</u>		
23	Pre-calculus and area under the curve	Maths genie website. Cobbett maths. Maths box. Century tech. Collins AQA GCSE maths Student book	Calculate or estimate gradients of graphs and areas under graphs (including quadratic and other non-linear graphs) Interpret the results in cases such as distance-time graphs, velocity-time		



		graphs and graphs in financial contexts		
Alge	braic tions Maths genie website. Cobbett math Maths box. Century tech Collins AQA GCSE maths Student book	Simplify and manipulate algebraic expressions involving algebraic fractions.		
Revi	ision			
Revi	ision			



Revision			
Revision June examination			
Revision and June examination			

