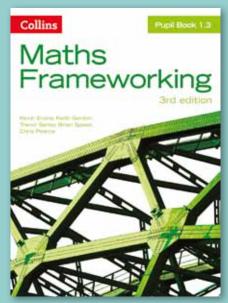
Collins

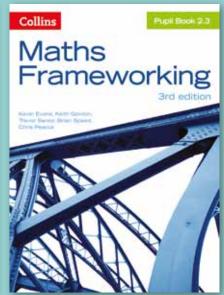


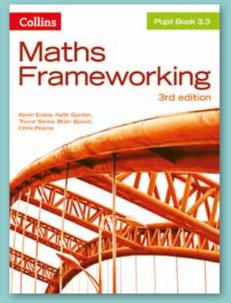
GCSE Maths for AQA 4th Edition

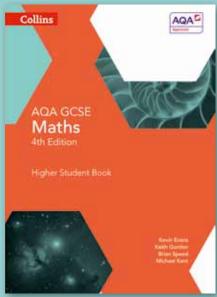
Higher Scheme of Work

Collins









Using Maths Frameworking 3rd edition Pupil Books 1.3, 2.3 and 3.3 and AQA GCSE Maths 4th edition Higher Student Book together will give you a complete 5 year maths programme.

To download 2 and 3 year Higher tier route maps go to collins.co.uk/GCSEMaths

5 year Higher Scheme of Work

This 5-Year Higher Scheme of Work offers a flexible approach for Year 7 to Year 11. It is based on a minimum of seven one hour Maths lessons per fortnight (assuming a two week timetable of three lessons in one week and four in the second). This accounts for an average of 140 teaching hours per academic year, with the exception of Year 11, which has 115 due to GCSE examinations in summer (2). In addition to this, there are assessment and review sessions built in.

		Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
			Maths Frameworking Pupil Book 1.3			
		1/2	1: Using numbers	1.1 Charts and financial mathematics	7	To carry out calculations from information given in charts and tables To know and use financial vocabulary
				1.2 Positive and negative numbers		 To order positive and negative numbers using a number line To use and apply comparison symbols such as > (greater than) and < (less than)
Year 7	Term 1			1.3 Simple arithmetics with negative numbers1.4 Subtracting negative numbers1.5 Multiplying negative numbers		To calculate addition, subtraction and multiplication problems involving directed numbers
	·			Travelling in Asia and Eastern Europe		To use and apply directed number calculations in a real-life situation
		3/4	2: Sequences	2.1 Function machines	5	To use function machines to generate inputs and outputs To use given inputs and outputs to work out a function
				2.2 Sequences and rules		To recognise, describe and generate linear sequences
				2.3 Finding missing terms		To identify missing terms in a sequence

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		2.4 Working out the <i>n</i> th term		 To identify the nth term of a linear sequence To use the nth term to work out any term in a sequence
3/4	2: Problem solving and reasoning	2.5 Other sequences	2	 To explore square and triangular numbers as sequences To know and generate the Fibonacci sequence and Pascal's triangle
		Valencia Planetarium		To apply knowledge of sequences in a context
5	3: Perimeter, area and volume	3.1 Perimeter and area of rectangles	4	 To use a simple formula to work out the perimeter of a rectangle To use a simple formula to work out the area of a rectangle
		3.2 Perimeter and area of compound shapes		To work out the perimeter and area of compound rectilinear shapes by using simple formulae
		3.3 Area of common 2D shapes		 To calculate the area of a triangle. To calculate the area of a parallelogram To calculate the area of a trapezium
6	3: Perimeter, area and volume	3.4 Surface area and volume of cubes and cuboids	3	 To calculate the surface area of cubes and cuboids To calculate the volume of cubes and cuboids
6	3: Problem solving	Design a bedroom	1	To calculate perimeters and areas in a real-life context
	Half term assessment		1	
		HALF	TERM	
7	4: Decimal numbers	4.1 Multiplying and dividing by 10,100,1000 and 10 000	7	To multiply and divide decimal numbers by powers of 10
		4.3 Esimates		To use rounding to estimate answers to calcuations, to spot possible errors
		4.2 Ordering decimals		To order decimals, including numbers with different decimal places

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		4.4 Adding and subtracting decimals4.5 Multiplying decimals4.6 Dividing decimals		To add and subtract decimal numbers To multiply and divide decimal numbers
		Financial skills – Shopping for leisure		To solve multi-step problems involving decimals in a familiar context
8/9/10	5: Working with numbers	5.1 Square numbers and square roots	10	To recognise and use square numbers up to 225 (15²) and corresponding square roots
		5.2 Rounding		To round numbers to more than one decimal place To round numbers to one or two significant figures
		5.3 Order of operations		To use the conventions of BIDMAS to carry out calculations
		5.4 multiplications problems without a calculator		To use an efficient written method of multiplication without a calculator
		5.5 Division problems without a calculator		To use an efficient written method of division without a calculator
		5.6 Calculations with measurements		 To convert between common metric units To use measurements in calculations To recognise and use appropriate metric units
10	5: Problem solving and reasoning	What is your carbon footprint?	2	To apply number skills in real life contexts
11/12	6: Statistics	6.1 Mode, median and range	7	To calculate and use the mode, median and range of a set of data
		6.2 The mean		To calculate and use the mean average of a set of data
		6.3 Statistical diagrams		To be able to read and interpret different statistical diagrams
		6.4 Collecting and using discrete data		To create and use a tally chart
		6.5 Collecting and using continuous data		To understand continuous data and use grouped frequency

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
			6.6 Data collection		To develop a greater understanding of data collection
			Challenge – School sports day		To apply data handling skills to a real-life situation
	13	End of term assessment		1	
	13	Assessment review		1	
			CHRISTMAS H	HOLIDAY	
	1/2	7: Using algebra	7.1 Expressions and substitution	6	 To use algebra to write simple expressions and recognise equivalent expressions To substitute numbers into expressions to work out their value
			7.2 Simplifying expressions		To apply arithmetic rules to algebraic expressions
			7.3 Using formulae		To use substitution in the context of formulae
			7.4 Writing formulae		To construct formulae from contextual situations
	2	7: Problem solving and reasoning	Winter sports	1	To use a formula to calculate costs
Term 2	3/4	8: Fractions	8.1 Equivalent fractions	7	To find common equivalent fractionsTo write fractions in their simplest form
۳			8.2 Comparing fractions		To compare and order two fractions
			8.3 Adding and subtracting fractions		To add and subtract fractions with different denominators
			8.4 Mixed numbers and improper fractions 8.5 Calculations with mixed numbers		 To convert between mixed numbers and improper fractions To add and subtract simple mixed numbers with different denominators
	4	8: Challenge	Fractional dissection	1	To explore fractions in the context of the part-whole relationship
	5/6	9: Angles	9.1 Measuring and drawing angles	5	To use a protractor to measure an angleTo use a protractor to draw an angle

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		9.2 Calculating angles		 To know the properties of parallel and perpendicular lines To calculate angles on a line To calculate angles at a point To identify opposite equal angles
		9.3 Corresponding and alternate angles		To calculate angles in parallel lines
		9.4 Angles in a triangle		To know that the angle sum in a triangle is 180°
		9.5 Angles in a quadrilateral		To know that the angle sum in a quadrilateral is 360°
		9.6 Properties of triangles and quadrilaterals		To know and use the properties of trianglesTo know and use the properties of quadrilaterals
6	9: Activity	Constructing triangles	1	To use angles construction and measuring skills with confidence, fluency and accuracy
	Half term assessment		1	
		HALF TER	М	
7/8	10: Coordinates and graphs	10.1 Coordinates in four quadrants	7	To use coordinates to identify and locate position points in all four quadrants
		10.2 Graphs from relationships 10.3 Predicting graphs from relationships		 To draw a graph using a simple linear rule To know the connection between pairs of coordinates and the relationship shown in an equation and a graph
		10.4 Graphs of fixed values of x and y , $y = x$ and $y = -x$		 To recognise and draw linear graphs with values of x and y To recognise and draw the graphs of y = x and y = -x
		10.5 Graphs of the form $x + y = a$		• To recognise and draw graphs of the form $x + y = a$
		10.6 Graphs from the real world		To draw and use real-life graphs To know how graphs can be used in real-life situations
8	10: Challenge	Global Warming	1	To apply graphing skills in a real-life situation

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
9/10	11: Percentages	11.1 Fractions, decimals and percentages	5	To know equivalences between common fractions, decimals and percentages To understand and use percentages greater than 100%
		11.2 Fractions of a quantity		To calculate a fraction of a quantity without a calculator
		11.3 Calculating simple percentages		To calculate a percentage of a quantity without a calculator
		11.4 Percentages with a calculator		To calculate a percentage of a quantity with a calculatorTo know when it is appropriate to use a calculator
		11.5 Percentage increase and decrease		To calculate the result of a percentage change
		Financial skills – Income tax		 To work out the result of a simple percentage change To apply percentage skills in a real-life context
11/12	12: Probability	12.1 Probability scales	3	 To know the vocabulary of probability To know and use the 0–1 probability scale
		12.2 Combined events		To use sample space diagrams to work out the probability of a combined event
		12.3 Experimental probability		To know the difference between theoretical and experimental probability To calculate and use experimental probability
		Financial skills – Easter Fayre		To use experimental and theoretical probability in a real-life context
12	Revision		1	
	End of term assessment		1	
		EASTER H	OLIDAY	

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
	1/2	13: Symmetry	13.1 Line symmetry and rotational symmetry	4	 To recognise shapes that have reflective symmetry To draw lines of symmetry on a shape To recognise shapes that have rotational symmetry To find the order of rotational symmetry for a shape
			13.2 Reflections		 To be able to reflect a shape in vertical and horizontal mirror lines To use a coordinate grid to reflect shapes in lines, including y = x
			13.3 Rotations		To be able to rotate a shape
			13.4 Tessellations		To be able to tessellate shapes
	2	13: Activity	Landmark spotting	1	To apply aspects of symmetry in real-life contexts
ж Ш	2/3	14: Equations	14.1 Finding unknown numbers	6	To find missing numbers in simple calculations
Term			14.2 Solving equations		To solve equations involving one operation
			14.3 Solving more complex equations		To solve equations involving two operations
			14.4 Setting up and solving equations		To use algebra to set up and solve equations
			Challenge – number puzzles		To identify and solve multi-step linear equations
	4/5	15: Interpreting data	15.1 Pie charts	6	 To read and interpret data from pie charts To use a scaling method to draw a pie chart
			15.2 Comparing data using averages and the range		To use the averages and range to compare and interpret data sets
			15.3 Statistical surveys		To carry out a statistical survey
					To use charts and diagrams to interpret data and write a report
			Challenge – Dancing competition		To apply data interpretation skills in everyday situations
		Half term assessment		1	

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		HAL	F TERM	
6/7	16: 3D shapes	16.1 Naming and drawing 3D shapes	5	To know the names and properties of common 3D shapes To use isometric paper to represent shapes made from cubes
		16.2 Using nets to construct 3D shapes		To draw nets for 3D shapes To construct 3D shapes from nets, including more complex shapes
		16.3 3D investigations		To establish the rule connecting faces, edges and vertices in 3D shapes (Euler)
7	16: Problem solving and reasoning	Delivering packages	1	To solve 3D shape problems in everyday situations
8/9	17: Ratio	17.1 Introduction to ratios	5	To know ratio notation To use ratios to compare quantities
		17.2 Simplifying ratios		 To write a ratio in its simplest terms To write ratios in the form 1 : x
		17.3 Ratios and sharing		To use ratios to find totals and missing quantities To write ratios to compare more than two items
		17.4 Ratios and fractions		To use and apply the connection between ratios and fractions as a proportionality relationship
9	17: Problem solving and reasoning	Smoothie bar	1	To use ratios in a real-life context.
10	End of term assessment		2	
11	Assessment review		2	
		END OF YEAR 7 / SUN	MMER HOLIDAY	

		Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
			Maths Frameworking Pupil Book 2.3			
		1/2	1: Working with numbers	1.1 Multiplying and dividing directed numbers	7	To carry out multiplications and divisions involving negative numbers
				1.2 Factors and HCF		To know and use highest common factors
				1.3 Multiples and LCM		To know and use lowest common multiples
				1.4 Powers and roots		To know and use powers and roots
				1.5 Prime factors		To be able to identify the prime factors of any integer
				Challenge – Blackpool Tower		To be able to use and apply number skills in a real-life situation
		3/4	2: Geometry	2.1 Parallel lines	7	To calculate angles in parallel lines
				2.2 Geometric properties of quadrilaterals		To know the geometric properties of quadrilaterals
ω .	٦ _			2.3 Translations		To be able to translate a shape
Year 8	Term			2.4 Enlargements		To enlarge a 2D shape by a scale factor
				2.5 Constructions		 To construct the mid-point and perpendicular bisector of a line To construct a perpendicular to a line from or at a given point
				Challenge – Constructions		To complete more complex constructions and produce a set of instructions
		5/6	3: Probability	3.1 Mutually exclusive outcomes and exhaustive outcomes	7	To recognise mutually exclusive outcomes and exhaustive outcomes To represent a chance on a probability scale
				3.2 Using a sample space to calculate probabilities		To use a sample space to calculate probabilities
				3.3 Estimates of probability		To use relative frequency to estimate probabilities
				Financial skills – Fun in the Fairground		To apply probability to a real-lifee situation
			Half term assessment		1	

		Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives		
			HALF TERM					
		7/8	4: Percentages	4.1 Calculating percentages	7	To write one quantity as a percentage of another		
				4.2 Calculating percentage increase and decrease		To use a multiplier to calculate a percentage change		
				4.3 Calculating a percentage change		To work out a change in value as a percentage increase or decrease		
				Challenge – Changes in population		To apply percentages when analysing a real-life situation		
		9/10	5: Congruent Shapes	5.1 Congruent shapes	7	To recognise congruent shapes		
	_			5.2 Congruent triangles		To know the conditions for recognising congruent triangles		
Year 8	Term `			5.3 Using congruent triangles to solve problems		To solve geometric problems using the rules of congruency		
>				Problem solving – Using scale diagrams to work out distances		Applying scale factors in real-life situations		
		11/12	6: Surface area and volume of prisms	6.1 Metric units for area and volume	6	To convert between metric units for area and for volume		
				6.2 Surface area of prisms		To calculate the surface area of a prism		
				6.3 Volume of prisms		To calculate the volume of a prism		
				Investigation – A cube investigation		To apply knowledge of area and work systematically to solve a problem		
			End of term assessment		1			
			Assessment review		1			
				CHRISTMAS HO	DLIDAY			
	2	1/2	7: Graphs	7.1 Graphs from linear equations	6	To develop graphical fluency with a range of linear representations		
	Term			7.2 Gradient of a line		 To know the gradient of a line from its linear equation To establish the equation of a line in the form y = mx + c from its graph 		

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		7.3 Graphs from quadratic equations		To recognise and draw the graph from a quadratic equation To solve a quadratic equation from a graph
		7.4 Real-life graphs		To draw graphs from real-life situations to show the relationship between two variables
		Challenge – The M25		To solve problems involving more than one variable in a real- life context
3/4	8: Number	8.1 Powers of 10	7	To multiply and divide by negative powers of 10
		8.2 Significant figures		To round to a specific number of significant figures
		8.3 Standard form with large numbers		To write a large number in standard form
		8.4 Multiplying with numbers in standard form	-	To multiply with numbers in standard form
		Challenge – Space – to see where no-one has seen before		To apply standard form to solve a problem in a real-life context
5/6	9: Interpreting data	9.1 Interpreting graphs and diagrams	7	To interpret different charts seen in the media
		9.2 Relative sized pie charts		To draw pie charts relative to data size
		9.3 Scatter graphs and correlation		To read scatter graphs To interpret correlation
		9.4 Creating scatter graphs		To construct scatter graphs and use a line of best fit to describe data trends
		Challenge – Football attendances		To use and apply data handling skills in a real-life context
	Half term assessment		1	
		HALF TER	M	
7/8/9	10: Algebra	10.1 Algebraic notation	10	To simplify algebraic expressions involving the four operations of arithmetic
		10.2 Like terms		To simplify expressions by collecting up like terms

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
			10.3 Expanding brackets		To multiply out brackets in an expression
			10.4 Using algebraic expressions		To identify and manipulate algebraic expressions
			10.5 Using index notation		To write algebraic expressions involving powers
			Mathematical reasoning – Writing in algebra		To use and apply algebraic manipulation skills in a range of contexts
	10/11	11: Shape and ratio	11.1 Ratio of lengths, areas and volumes	8	To use ratio to compare lengths, areas and volumes of 2D and 3D shapes
			11.2 Fractional enlargement		To enlarge a 2D shape by a fractional scale factor
			11.3 Map scales		To be able to read and use map scales efficiently
			Activity – Map reading		To use and apply skills and knowledge of area, ratio and data handling in a real-life context.
		Revision		1	
		End of term assessment		1	
		Assessment review		1	
			EASTER HOL	IDAY	
	1/2/3	12: Fractions and decimals	12.1 Adding and subtracting fractions	10	To add and subtract fractions and mixed numbers
			12.2 Multiplying fractions and integers		To multiply a fraction or a mixed number and an integer
			12.3 Dividing with fractions and integers		To divide a fraction or a mixed number by an integerTo divide an integer or a mixed number by a fraction
			12.4 Multiplication with large and small numbers		To multiply with combinations of large and small numbers mentally
8			12.5 Division with large and small numbers		To divide combinations of large and small numbers mentally
Term			Challenge – Guesstimates		To use mental calculation strategies and estimation in real-life situations

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
	4	13: Proportion	13.1 Direct proportion	4	To know what is meant by direct proportion To find missing values in problems involving proportion
			13.2 Graphs and direct proportion		To represent direct proportion graphically and algebraically
			13.3 Inverse proportion		To know what is meant by inverse proportion To use graphical and algebraic representations of inverse proportion
			13.4 Comparing direct proportion and inverse proportion		To recognise direct and inverse proportion and work out missing values
			Challenge – Planning a trip		To apply knowledge of proportion to a real-life situation
	5/6	14: Circles	14.1 The circumference of a circle	5	 To know the definition of a circle and be able to name the parts of a circle To establish the relationship between the circumference and diameter of a circle (ω)
			14.2 Formula for the circumference of a circle		To calculate the circumference of a circle
			14.3 Formula for the area of a circle		To calculate the area of a circle
			Financial skills – Athletics stadium		To use and apply knowledge of number and circles to solve multi-step problems in real-life contexts
		Half term assessment		1	
			HALF TER	M	
	7/8	15: Equations and formulae	15.1 Equations with brackets	7	To solve equations involving brackets To solve equations where the answers are fractions or negative numbers
			15.2 Equations with the variable on both sides		To solve equations with the variable on both sides
			15.3 More complex equations		To solve equations with fractions and fractional coefficients To solve simple equations involving squares
٤ ر			15.4 Rearranging formulae		To change the subject of a formula, including formulae involving squares
Term			Mathematical reasoning – Using graphs to solve equations		Be able to make links between graphical and algebraic representations to solve equations

		Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		9/10	16: Comparing Data	16.1 Grouped frequency tables	7	To create a grouped frequency table from raw data
				16.2 Drawing frequency diagrams		To interpret frequency diagrams To draw a frequency diagram from a grouped frequency table
				16.3 Comparing sets of data		To be able to compare data from two sources
				16.4 Misleading charts		To recognise when a statistical chart may be misleading
				Problem solving – Why do we use so many devices to watch TV?		Be able to interpret and present data in order to make valid comparisons
		11	End of term assessment		1	
		11	Assessment review		1	
				END OF YEAR 8 / SUMMER I	HOLIDAY	
			Maths Frameworking Pupil Book 3.3			
		1/2	1: Percentages	1.1 Simple interest	7	To know what is meant by simple interestTo solve problems involving simple interest
				1.2 Percentage increase and decrease		To use the multiplier method to calculate the result of a percentage increase or decrease To calculate the percentage change in a value
				1.3 Calculating the original value		To calculate the original value, given a percentage change
9 7	L _			1.4 Repeated percentage changes		To calculate the result of repeated percentage changes
Year 9	Term			Challenge – Exponential growth		Be able to use and apply prior knowledge to extend learning and make links with other areas of mathematics
		3/4/5	2: Equations and formulae	2.1 Multiplying out brackets	10	To expand brackets and simplify more complex expressions
				2.2 Factorising algebraic expressions		To factorise more complex expressions
				2.3 Expressions with several variables		To expand and factorise expressions with more than one variable
				2.4 Equations with fractions		To solve equations where the variable is in the denminator of a fraction
				Investigation – Body mass index		To use and apply skills to solve problems in a real-life context

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
5/6	3: Polygons	3.1 Properties of polygons	5	To work out the sum of the interior angles of a polygon To work out the exterior angles of polygons
		3.2 Interior and exterior angles of regular polygons		To calculate the interior and exterior angles of regular polygons
		3.3 Tessellations and regular polygons		To establish which regular polygons tessellate
		Mathematical reasoning – Semi-regular tessellations		To use geometric reasoning and apply prior knowledge to extend learning
	Half term assessment		1	
		HALF	TERM	
7/8	4: Using data	4.1 Scatter graphs and correlation	7	To infer a correlation from two related scatter graphs To draw a line of best fit to show a correlation
		4.2 Two-way tables		To interpret a variety of two-way tables
		4.3 Estimation of a mean from grouped data		To estimate a mean from grouped data
		4.4 Cumulative frequency diagrams		To draw a cumulative frequency diagram To find the interquartile range
		4.5 Statistical investigations		To plan a statistical investigation
		Challenge – Census		Use and apply statistical skills and analysis to a real-life situation

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives		
	9/10	5: Applications of graphs	5.1 Step graphs	7	To interpret step graphs		
			5.2 Time graphs		To interpret and draw time graphs		
			5.3 Exponential growth graphs		To draw exponential growth graphs		
			Problem solving – Mobile phone tariffs		To use and apply knowledge of graphs to solve best buy problems in real-life contexts		
	11/12	6: Pythagoras' Theorem	6.1 Introducing Pythagoras	7	To use Pythagoras' theorem to calculate missing sides in right- angled triangles		
			6.2 Using Pythagoras' theorem to solve problems		To use Pythagoras' theorem to solve problems in context		
			6.3 The converse of Pythagoras' theorem		To use the converse of Pythagoras' theorem to establish whether or not a triangle is a right-angled triangle		
			Activity – Practical Pythagoras		To apply Pythagoras' theorem in a practical context		
		End of term assessment		1			
		Assessment review		1			
	CHRISTMAS HOLIDAY						
2	1/2	7: Fractions	7.1 Adding and subtracting fractions	5	To choose an appropriate method to add or subtract mixed numbers		
Term 2			7.2 Multiplying fractions and mixed numbers		To multiply two fractions or mixed numbers		
F			7.3 Dividing fractions and mixed numbers		To divide one fraction or mixed number by another fraction or mixed number		

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
			7.4 Algebraic fractions		To add, subtract, multiply or divide fractions containing a variable
			Investigations – Fractions from one to six		To apply knowledge of fractions to a more complex problemTo work systematically
	2/3	8: Algebra	8.1 Expanding the product of two brackets	6	To multiply out (or expand) two brackets
			8.2 Expanding expressions with more than two brackets		To multiply out three or more brackets
			8.3 Factorising quadratic expressions with positive coefficients		To factorise quadratic expressions with positive coefficients
			8.4 Factorising quadratic expressions with negative coefficients	-	To factorise quadratic expressions with negative coefficients
			8.5 The difference of two squares		To recognise and use the difference of two squares to solve an equation
			Challenge – Graphs from expressions		To use and apply knowledge of factorising and expansion in a practical context
	4/5	9: Decimal numbers	9.1 Powers of 10	7	To calculate with positive and negative powers of 10
			9.2 Standard form		To calculate using standard form for positive and negative powers of 10
			9.3 Multiplying numbers in standard form		To multiply numbers in standard form
			9.4 Dividing with numbers in standard form		To divide numbers in standard form
			9.5 Upper and lower bounds		To use limits of accuracy when rounding data
			Mathematical reasoning – To the stars and back		To use and apply skills and knowledge of standard form in a real-life context
		Half term assessment		1	
			HALI	TERM	

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
	6/7	10: Surface area and volume	10.1 Volume of a cylinder	7	To calculate the volume of a cylinder
		of cylinders	10.2 Surface area of a cylinder		To calculate the curved surface area of a cylinder To calculate the total surface area of a closed cylinder
			10.3 Composite shapes		To calculate the volumes and surface areas of composite shapes
			Problem solving – Packaging soup		To use and apply knowledge of volume and surface area to solve a practical problem
	8/9/10	11: Solving equations graphically	11.1 Graphs from equations of the form $ay \pm bx = c$	10	To draw any linear graph from its equationTo solve a linear equation graphically
			11.2 Solving simultaneous equations by drawing graphs		To solve a pair of simultaneous equations graphically
			11.3 Solving quadratic equations by drawing graphs		To solve quadratic equations graphically
			11.4 Solving cubic equations by drawing graphs		To solve cubic equations graphically
			Challenge – Maximum packages		To use and apply knowledge of functions to solve a real-life problem graphically
	10	End of term assessment		1	
	10	Assessment review		1	
			EASTER HOL	IDAY	
	1/2	12: Compound units	12.1 Speed	7	To solve distance/time/speed problems
Term 3			12.2 More compound units		To solve problems involving density/mass/volume
μ μ			12.3 Unit costs		To apply the unit cost method to solve problems such as best value

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		Challenge – Population density		To use and apply knowledge of compound measure strategies to a problem in a practical context
3/4	13: Right-angled triangles	13.1 Introduction to trigonometric ratios	7	To know what trigonometric ratios are
		13.2 How to find trigonometric ratios of angles		To know how to find the trigonometric ratios of sine, cosine and tangent in a right-angled triangle
		13.3 Using trigonometric ratios to find angles		To find the angle identified from a trigonometric ratio
		13.4 Using trigonometric ratios to find lengths		To find an unknown length of a right-angled triangle given one side and an angle
		Investigation – Barnes Wallis and the bouncing bomb		To use and apply trigonometry in a practical context
	AQA GCSE Higher Student Book			
5/6	1.4 Introduction to algebraic proof	4.1 Reasoning about number patterns	7	Make and test conjectures about patterns and relationships Look for proofs and counter-examples
	Half term assessment		1	
		HALI	TERM	
7	12: Introduction to geometric proof	12.1 Properties and relationships	3	Use known geometric results to obtain simple proofs
8	13: Probability	13.2 Independent and combined events	4	To calculate the probability of independent and combined events using a tree diagram

		Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		9	4: Introduction to geometric Sequences	4.4 Generating non-linear sequences	3	To generate and identify non-linear sequences from either a term-to term or a postion-to-term rule
		10	Revision		6	
			End of term assessment		1	
			Assessment review		1	
				END OF YEAR 9 / SUN	MER HOLIDAY	
			AQA GCSE Higher Student Book			
		1 /2	1 Number: Basic number	1.1 Solving real-life problems	7	To solve number problems in a real-life context
				1.2 Multiplication and division of decimals		 To multiply a decimal number by another decimal number To divide by decimals by adjusting the calculation to division by an integer
Year 10	Term 1			1.3 Approximation of calculations		 To round to a given number of significant figures in order to approximate a result before calculating To round a calculation at the end of the problem to give a reasonable answer
				1.4 Multiples, factors, prime numbers, powers and roots		 To generate factors and multiples for any given integer To identify prime numbers to 100 To identify square and cube numbers and their roots to 100 To identify and generate triangular numbers
				1.5 Prime factors, LCM and HCF		 To identify prime factors for any given integer To identify the LCM of two integers To identify the HCF of two integers

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
•				
		1.6 Negative numbers		To multiply and divide by directed numbers
3 /4	2 Number: Fractions, ratio	2.1 One quantity as a fraction of another	7	To find one fraction as a quantity of another
	and proportion	2.2 Adding, subtracting and calculating with fractions		To add and subtract fractions with different denominators
		2.3 Multiplying and dividing fractions		To multiply by proper and improper fractionsTo divide by a fraction
		2.4 Fractions on a calculator		To use the fraction button on a calculator to carry out calculations
		2.5 Increasing and decreasing quantities by a percentage		To increase and decrease quantities by a percentage
		2.6 Expressing one quantity as a percentage of another		To express one quantity as a percentage of anotherTo work out percentage change
	3 Statistics: Statistical diagrams and averages	3.1 Statistical representation	7	To present, analyse and interpret discrete and continuous sets of data
		3.2 Statistical measures		 To calculate the mean, median and mode of a set of data To choose the most appropriate average to use To calculate and interpret the range of a set of data
		3.3 Scatter diagrams		 To draw, interpret and use scatter diagrams To identify correlation and draw a line of best fit To estimate missing values in a scatter diagram
	End of term assessment		1	
		HALI	= TERM	

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
7/8	4 Algebra: Number and	4.1 Patterns in number	7	To extend and identify number patterns
	sequences	4.2 Number sequences		To identify simple linear rulesTo generate sequences, given the rule
		4.3 Finding the <i>n</i> th term of a linear sequence		To generalise and find the <i>n</i> th term of a linear sequence
		4.4 Special sequences		To recognise and continue some special number sequences such as square numbers or a simple geometric progression
	5 Ration, proportion and rates of change: Ratio and proportion	4.5 General rules from given patterns	7	To find the <i>n</i> th term from a sequence of patterns
		4.6 The <i>n</i> th term of a quadratic sequence		To continue a quadratic sequence, given the rule
		4.7 Finding the n th term for quadratic sequences		To find the <i>n</i> th term of a quadratic sequence from second differences
9/10		5.1 Ratio		 To simplfy a given ratio To express a ratio as a fraction To divide amounts into given ratios To complete calculations from a given ratio and partial information
		5.2 Direct proportion problems		To recognise and solve problems using direct proportion
		5.3 Best buys		 To find the cost per unit weight and the weight per unit cost To use the unitary method to identify the cheapest option
		5.4 Compound measures		To solve problems involving speed/distance/time and density/ mass/volume

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		5.5 Compound interest and repeated percentage change		To calculate simple and compound interest To solve problems involving repeated percentage change
		5.6 Reverse percentages (working out the original quantity)		To find percentage increases and reductions To solve prolems that require the removal of a percentage interest by reducing the price by a different amount (reverse percentages)
11/12	6 Geometry and measures: Angles	6.1 Angle facts	5	To know the sum of the angles on a straight line, around a point, in a triangle and in a quadrilateral
		6.2Triangles		To solve missing angle problems in triangles
		6.3 Angles in a polygon		To work out the sum of the interior angles in a polygon
		6.4 Regular polygons		To be able to calculate the size of the interior and exterior angles of any regular polygon
		6.5 Parallel lines		To solve problems involving alternate, corresponding, allied and opposite angles
		6.6 Special quadrilaterals		To be able to calculate the size of angles in special quadrilaterals using their geometric properties

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
			6.7 Scale drawings and bearings		 To be able to make a scale drawing to a given scale To be able to convert measurements to calculate actual distances To be able to read, interpret and draw bearings diagrams To use the geometrical properties of a diagram to calculate a bearing
	12	End of term assessment		1	
	12	Assessment review		1	
			CHRISTMAS H	IOLIDAY	
	1	7 Geometry and measures: Transformations, constructions and loci	7.1 Congruent triangles	4	To identify two congruent trianglesTo justify why two triangles are congruent
		constructions and loci	7.2 Rotational symmetry		To identify and describe the rotational symmetry of a shape
Term 2			7.3 Transformations		 To translate a 2D shape, using vectors to describe the transformation To draw and describe the image of one or more reflections To draw and describe a rotation that will take an object onto its image To enlarge a 2D shape by a positive or negative integer or fraction scale factor and describe the transformation
			7.4 Combinations of transformations		To combine transformations To describe a sequence of transformations to map an object onto its image
			7.5 Bisectors		To construct the bisectors of lines and angles
			7.6 Defining a locus		To draw a locus for a given rule

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		7.7 Loci problems		To solve loci problems in practical contexts
		7.8 Plans and elevations		To draw 2D representations of 3D objects from different views
2/3	1:8 Algebra: Algebraic manipulation	8.1 Basic algebra	7	To recognise expressions, equations, formulae and indentities To substitute into, manipulate and simplify algebraic expressions
		8.2 Factorisation		To factorise an algebraic expression
		8.3 Quadratic expansion		• To multiply out a pair of algebraic brackets such as $(x + a)(x - b)$
		8.4 Expanding squares		• To multiply out a pair of identical brackets such as $(x + a)(x + a) = (x + a)^2$
		8.5 More than two binomials		• To multiply out a string of algebraic brackets such as $(x + a)(x - b)(x + c)$
		8.6 Quadratic factorisation		• To factorise quadratic expressions with the coefficient of x^2 equal to 1
		8.7 Factorising $ax^2 + bx + c$		• To factorise quadratic expressions with the coefficient of x^2 not equal to 1
		8.8 Changing the subject of a formula		Be able to rearrange formulae
4/5	9 Geometry and measures:	9.1 Circumference and area of a circle	7	To calculate the circumference and area of a circle
	Length, area and volume	9.2 Area of a parallelogram 9.3 Area of a trapezium		To find the area of a parallelogram and a trapezium
		9.4 Sectors		To calculate the length of an arc and the area of a sector
		9.5 Volume of a prism		To calculate the volume of a prism

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
			9.6 Cylinders		To calculate the volume and surface area of a cylinder
			9.7 Volume of a pyramid		To calculate the volume of a pyramid
			9.8 Cones		To calculate the volume and surface area of a cone
			9.9 Spheres		To calculate the volume and surface area of a sphere
		Half term assessment		1	
			HALF	TERM	
	6/7	10 Algebra: Linear Graphs	10.1 Drawing linear graphs from points	7	To draw a line graphs using three points (x, y)
			10.2 Gradient of a line		 To work out the gradient of a straight line To know that the gradient of a line is the coefficient of x (m) in y = mx + c, the general equation for a straight line.
			10.3 Drawing graphs by gradient-intercept and cover-up methods		To draw graphs using the gradient / intercept method
			10.4 Finding the equation of a line from its graph		To find the equation of a line, given its gradient and <i>y</i> -axis intercept
			10.5 Real-life uses of graphs		To solve problems in practical contexts using graphs
			10.6 Solving simultaneous equations using graphs		To use the graphical intercept method of solving simultaneous equations
			10.7 Parallel and perpendicular lines		 To know that parallel lines have the same gradient To know that the product of the gradients of perpendicular lines is always -1

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
8/9/10	11Geometry and measures: Right-angled triangles	11.1 Pythagoras' theorem	9	To calulate the length of the hypotenuse in a right-angled triangle
		11.2 Finding the length of a shorter side		To calculate the length of a shorter side in a right-angled triangle
		11.3 Applying Pythagoras' theorem in real-life situations		To solve real-life problems involving Pythagoras' theorem
		11.4 Pythagoras' theorem and isosceles triangles	-	To use the geometry of isosceles triangles and Pythagoras' theorem to solve angle problems
		11.5 Pythagoras' theorem in three dimensions	=	To use Pythagoras' theorem in problems involving three dimensions
		11.6 Trigonometric ratios		To use the three trigonometric ratios
		11.7 Calculating angles		To use the trigonometric ratios to calculate an angle
		11.8 Using the sine and cosine functions		To find the lengths of sides and sizes of angles in right-angled triangles using the sine and cosine functions
		11.9 Using the tangent function		To find the lengths of sides and sizes of angles in right-angled triangles using the tangent function
		11.10 Which ratio to use		To use 'SOHCAHTOA' to decide which ratio to use
		11.11 Solving problems using trigonometry		To solve practical problems involving trigonometry, including those with angles of elevation and depression
		11.12 Trigonometry and bearings		To solve bearings problems using trigonometry
		11.13 Trigonometry and isosceles triangles		To use trigonometry to solve problems involving isosceles triangles
10	12 Geometry and measures: Similarity	12.1 Similar triangles	3	To show that two triangles are similarTo work out the scale factor between similar triangles
		12.2 Areas and volumes of similar shapes		To solve problems involving the area and volume of similar shapes
	End of term assessment		1	
	Assessment review		1	
		EASTER HO	LIDAY	

		Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		1/2	13 Probability: Exploring and applying probability	13.1 Experimental probability	7	 To calculate experimental probabilities and relative frequencies To estimate probabilities from experiments To use different methods to estimate probabilities
				13.2 Mutually exclusive and exhaustive events		To recognise mutually exclusive, complementary and exhaustive events
				13.3 Expectation		To predict the likely number of successful events, given the number of trials and the probability of any one event
				13.4 Probability and two-way tables		To read two-way tables and use them to work out probabilities and interpret data
				13.5 Probability and Venn diagrams		To construct and read Venn diagrams to represent probability
	Term3	3	3 14 Number: Powers and standard form	14.1 Powers (indices)	4	To use powers of numbers to describe large and small numbers and generate number patterns
	'			14.2 Rules for multiplying and dividing powers		To use the laws of indices to calculate or simplify algebraic expressions
				14.3 Standard form		To convert an ordinary number into standard form and vice versa
						To calculate using numbers in standard form, applying the laws of indices
		4/5/6	15 Algebra: Equations and	15.1 Linear equations	11	To solve linear equations
			inequalities	15.2 Elimination method for simultaneous equations		To use the elimination method to solve simultaneous equations
				15.3 Substitution method for simultaneous equations		To use the substitution method to solve simultaneous equations
				15.4 Balancing coefficients to solve simultaneous equations		To use the method of balancing coefficients to solve simultaneous equations

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
			15.5 Using simultaneous equations to solve problems		To solve problems, using simultaneous linear equations with two variables To solve problems using linear and non-linear simultaneous equations
			15.6 Linear inequalities 15.7 Graphical inequalities		To solve a simple linear inequality To show a graphical inequality To know how to find regions that satisfy more than one graphical inequality
			15.8 Trial and improvement		To estimate the solution to an equation that does not have an exact solution, using the method of trial and improvement
		Half term assessment		1	
			HALF	TERM	
	7/8	16 Number: Counting, accuracy, powers and surds	16.2 Estimating powers and roots	7	To use known facts and trial and improvement to estimate the value of powers and roots
			16.3 Negative and fractional powers		To represent roots and decimal numbers as indices

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
			16.1 Rational numbers, reciprocals, terminating and recurring decimals		To recognise rational numbers, reciprocals, terminating and recurring decimals
					To convert terminal decimals to fractions
					To convert fractions to recurring decimals
					To find reciprocals of integers or fractions
			16.4 Surds		To simplify surds
					To calculate with and manipulate surds, including rationalising a denominator
			16.5 Limits of accuracy		To find the limits of accuracy of numbers that have been rounded to different degrees of accuracy To identify the upper and lower bounds of an estimation
			16.6 Problems involving limits of accuracy		Combine limits of two or more variables together to solve problems
			16.7 Choices and outcomes		To work out the number of choices, arrangements or outcomes when choosing from lists or sets
	9/10	17 Algebra: Quadratic	17.1 Plotting quadratic graphs	7	To plot quadratic graphs using a table of values
		equations	17.2 Solving quadratic equations by factorisation		To solve a quadratic equation by factorisation (by sight)

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
			17.3 Solving a quadratic equation by using the quadratic formula		To use the quadratic formula to solve a quadratic equation where factorisation is not possible To derive the quadratic formula by completing the square for
					$ax^2 + bx + c = 0 $ (extension)
			17.4 Solving quadratic equations by completing the square		To solve quadratic equations by completing the square
			17.5 The significant points of a quadratic curve		To identify and interpret roots, intercepts and turning points of quadratic functions graphically
					To deduce roots algebraically and turning points by completing the square
					To use this information to sketch the curve
			17.6 Solving equations, one linear and one non- linear usinggraphs		To solve a pair of simultaneous equations where one is linear and one is non-linear, using graphs and where they intersect
			17.7 Solving quadratic equations by the method of intersection		To solve quadratic equations using intersection points between graphs or at axes
			17.8 Solving linear and non-linear simultaneous equations algebraically		To use algebraic techniques, including substitution and rearranging, to solve a pair of equations
			17.9 Quadratic inequalities		To solve a quadratic inequality algebraically
					To show a graphical quadratic inequality
					To know how to find regions that satisfy more than one graphical inequality

		Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		11/12	18 Statistics: Sampling and more complex diagrams	18.1 Collecting data	7	To know the range of methods of sampling and decide which method is best when collecting reliable, unbiased data
				18.2 Frequency polygons		 To draw frequency polygons for discrete and continuous data To draw histograms for continuous data with equal intervals To construct pie charts
				18.3 Cumulative frequency graphs		To find a measure of dispersion (the interquartile range) and a measure of location (the median) using a graph
				18.4 Box plots		To draw and read box plots
				18.5 Histograms		To draw and read histograms where the bars are of unequal width To find the median, quartiles and interquartile range from a
						histogram
			End of term assessment		1	
			Assessment review		1	
				END OF YEAR 10 / SU	MMER HOLIDAY	
		1/2	19 Probability: Combined	19.1 Addition rules for outcomes of events	7	To work out the probability of two events such as P(A) or P(B)
			events	19.2 Combined events		To work out the probability of two events occurring at the same time
Year 11	Ferm 1			19.3 Tree diagrams		To use and construct sample space diagrams and tree diagrams to work out the probability of combined events
×				19.4 Independent events		To calculate using the 'and' and the 'or' rule to find the probality of combined events
				19.5 Conditional probability		To work out the probability of combined events when the probabilities change after each event

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives		
	3 /4	20 Geometry and measures:	20.1 Circle theorems	7	To use circle theorems to find the size of angles in circles		
		Properties of circles	20.2 Cyclic quadrilaterals	-	To find the size of angles in cyclic quadrilaterals		
			20.3 Tangents and chords		To use tangents and chords to find the size of angles in circles		
			20.4 Alternate segment theorem		To use the alternate segment theorem to find the size of angles in circles		
	5/6	21 Ratio, proportion and rates of change: Variation	21.1 Direct proportion	7	To solve problems where two variables have a directly proportional relationship (direct variation) To work out the constant and equation of proportionality		
			21.2 Inverse proportion		To solve problems where two variables have an inversely proportional relationship (inverse variation) To work out the constant and equation of proportionality		
		Half term assessment		1			
		HALF TERM					
	7/8	22 Geometry and measures: Triangles	22.1 Further 2D problems	7	To use Pythagoras' theorem and trigonometric ratios to solve more complex two-dimensional problems		
			22.2 Further 3D problems		To use Pythagoras' theorem and trigonometric ratios to solve more complex three-dimensional problems		
			22.3 Trigonometric ratios of angles between 0° and 360°		To find the sine, cosine and tangent of any angle between 0° and 360°		
					To use the symmetry of the circular function graphs to find trigonmetric values		

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		22.3 Solving any triangle		To use the sine rule and the cosine rule to find sides and angles in non-right-angled triangles
		22.4 Using sine to calculate the area of a triangle		To use the sine rule to work out the area of any triangle, given two sides and the included angle
9/10	23 Algebra: Graphs	23.1 Distance-time graphs	7	To draw and interpret distance–time graphsTo know that the gradient represents the speed of the object
		23.2 Velocity-time graphs		 To draw and interpret velocity-time graphs To know that the gradient represents the acceleration of the object
				To know that the area under the graph represents the distance travelled
		23.3 Estimating the area under a curve		To estimate the area under a curve by using rectangular strips
		23.4 Rates of change		To interpret the gradient at a point on a curve as the instantaneous rate of change
				To apply the concept of rates of change in numerical, algebraic and graphical contexts
		23.5 Equation of a circle		To recognise and plot the equation of a circle
				To use this equation to identify the centre and radius of the circle
				To find the equation of a tangent to a circle at a given point

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
·					
			23.6 Other graphs		To recognise and plot cubic, exponential and reciprocal graphs
			23.7 Transformations of the graph $y = f(x)$		To sketch translations and reflections of the graph of a given function
					• To be able to transform graphs and identify the effect of transformations on functions such as $y = 2f(x)$; $y = f(2x)$; $y = f(x) + 2$ and $y = f(x + 2)$
	11	Revision for Mock Exam		4	
	12	MOCK EXAM		2	
	12	Mock exam review		1	
	12	Algebra recap – graphs		1	
			CHRIS	TMAS HOLIDAY	
	1/2	24 Algebra: Algebraic fractions and functions	24.1 Algebraic fractions	7	To simplify algebraic fractionsTo solve equations containing algebraic fractions
2 ر			24.2 Changing the subject of a formula		To change the subject of a formula where the subject occurs more than once
Term			24.3 Functions		 To interpret simple expressions as functions with inputs and outputs To interpret the reverse process as the inverse function To use function notation to draw graphs and identify values by substitution
			24.4 Composite functions		To interpret the succession of two functions as a composite function and be able to find output values from given input values

Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
		24.5 Iteration		 To find approximate solutions to equations numerically using iteration To set up, solve and interpret the answers in growth and decay problems, including compound interest, working with general iterative processes
3	25 Geometry and measures: Vector geometry	25.1 Properties of vectors	4	 To add and subtract vectors To multiply vectors by a scalar To represent a vector in diagrammatic and column form
		25.2 Vectors in geometry		 To use vectors to solve geometric problems To use vectors to construct geometric arguments and proofs
	The following topics are revisited to allow the most able to explore in greater depth			
4/5	22 Trigonometry	22.4 Sine rule	7	Know and apply the sine rule to find unknown lengths and angles
		22.4 Cosine rule		Know and apply the cosine rule to find unknown lengths and angles
		22.5 Area of a triangle using sine		 Know and apply area = 1/2absinC to calculate the area, sides or angles of any triangle
	Half term review/ assessment		1	
		HALF	- TERM	

	Week	Book / Chapter: Topic	Topic break-down (sub-topics)	Total no. of teaching hours	Learning Objectives
	6	23 Rates of change	23.4 Gradients	4	 Interpret the gradient at a point on a curve as the instantaneous rate of change Interpret the gradients of tangents and chords in numerical, algebraic and graphical contexts
	7/8	20 Geometric proof and reasoning	20.1 Circle theorems	7	Apply and prove the standard circle theorems concerning angles, radii, tangents and chords, and use them to prove related results
			25.2 Vectors		Use vectors to construct geometric arguments and proofs
			7.4 Transformations		Describe the changes and invariance achieved by combinations of rotations, reflections and transformations
	9/10	8 Algebraic proof and reasoning	8.1 Identities	7	 Know the difference between an equation and an identity Argue mathematically to show algebraic expressions are equivalent Use algebra to support and construct arguments and proofs
		EASTER HOLIDAY			
	1 /2	Number recap		7	
	3 /4	Algebra recap		7	
	5 /6	Geometry recap		7	
		HALF TERM			
	7 /8	Statistics and probability recap		7	
	9/10	Revision and exam preparation		7	
		GCSE MATHEMATICS EXAM (TBC)			

Collins



Find out more at www.collins.co.uk/GCSEmaths

- Discover the resources
- Register for your free evaluation pack
- Download sample pages
- Read about the new AQA GCSE
- Keep up to date with special offers





Don't miss out on any GCSE Maths news – sign up on collins.co.uk to receive our maths emails.

Go to www.collins.co.uk/GCSEmaths