

Intent:

Nature is written in mathematical language.

- Galileo Galilei, Italian astronomer, physicist and engineer

Mathematics is the poetry of logical ideas.

— Einstein

Here at Altrincham College we aim for all students to feel that sense of understanding regardless of their prior attainment. Mathematics is not just about numbers, algebra and problem solving but about exploring new ideas and creating connections between areas we know and get to discover. Maths is all around us from the numeracy we use day to day to the beauty of nature. Enhancing STEM skills is important as every great advancement in human history has come from a strong understanding of science, technology and engineering. And underpinning all of these, is mathematics.

Our aims throughout the Maths journey at Altrincham College:

- KS3: To embed a deep understanding and curiosity about the fundamental knowledge across the five areas of Maths to create a firm foundation that can be built upon to enable them to make links across the wider whole school curriculum and in real life.
- KS4: To develop the specific knowledge and strategies to apply to problems ensuring that they are inspired to reach their maximum potential at GCSE and are confident using the maths needed for further education, careers and everyday life.
- KS5: To develop the deeper Mathematical understanding needed to thrive in further education and make positive impacts in their future workplaces.

Implementation:

During Years 7 - 9 students follow a Mastery approach SOW. In Y7 there is a Number focus, Y8 focuses on algebra and Y9 works on Data and Geometry. However, the importance of revisiting topic areas, especially ratio and proportion are strongly evident throughout all years, through the SOW as well as specifically designed Topic Homework. Students follow a consistent assessment structure across the department that is embedded throughout the 3 years. A MAD review is completed every 2 weeks which is a mini assessment covering the work from the previous 2 weeks and creates PLCs, Personalised Learning Checklists. Our intent with students getting used to PLCs is that it will promote independent understanding of knowledge gaps and to use them to focus their revision to make progress for future assessments. Teaching maths with a mastery approach involves employing techniques that help students to develop a deep and secure knowledge and understanding of mathematics at each stage of their learning, so that by the end of every school year or Key Stage, students will have acquired mastery of the mathematical facts and concepts that they have been exposed to, equipping them to move on confidently and securely to more advanced material at GCSE. At Altrincham College, we are incorporating elements of the Mastery approach in order to further strengthen the teaching and learning at Altrincham College.

We also promote the use of MathsWatch and DrFrostMaths, both are online interactive programmes where students have access to home tutor videos and can track their own progress though the interactive, self marking question banks. This is proving to be very popular with our students. They can access this at home to increase their confidence as well as using it to support homework tasks and consolidating understanding from lessons. The results of any completed tasks are automatically

recorded to track progress and highlight areas for development under the 'My progress tab' on MathsWatch or students can complete Gap Analysis questions on the 'Clean up' tab on DrFrostMaths.

During Year 10 and 11 we offer students either Higher (grade 4-9) or Foundation (grade 1-5) tiers in order to provide appropriate challenge and high success rates for all our students. Decisions on which paper students are entered for are based on open dialogue and are constantly reviewed to ensure we meet the best interests of every child. We follow the AQA GCSE course which provides a broad, coherent, satisfying and worthwhile course of study. We believe it encourages students to develop confidence and to have a positive attitude towards mathematics, recognising the importance of the subject in their own lives and the role it plays in society. It should also provide a strong mathematical foundation for students who go on to study mathematics at a higher level post-16.

- Develop fluent knowledge and understanding of mathematical methods and concepts.
- Acquire, select and apply mathematical techniques to solve problems.
- Reason mathematically, make deductions and inferences and draw conclusions.
- Comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context.

Students should also be aware that mathematics can be used to develop models of real situations and that these models may be more or less effective depending on how the situation has been simplified and the assumptions that have been made.

Literacy within Maths as a discipline

The goal of using literacy skills in Mathematics is to foster a deeper conceptual understanding of the mathematics. The subject specific literacy demands placed upon students in Maths include:

- Moving quickly between text and graphics (graphs and charts)
- Specificity of Maths vocabulary not seen regularly in other subjects (isosceles, histogram, vector)
- Atypical meanings for more common words (evaluate, Pi, proof)
- Interpretation of words to find / decide upon the appropriate mathematical symbol so 'positive', 'add' and 'sum' can denote '+'.
- Related mathematical terms i.e accurately understanding and using denominator and numerator.

In order to ensure students are equipped with the specific disciplinary literacy knowledge pertinent to Maths, the implementation of the intended curriculum sees teachers of Maths ensuring a shared pedagogy. Here, key definitions are routinely embedded into lessons, command words are explicitly discussed and deconstructed for understanding, with the frequency of open-ended questions and encouragement of tier 2 & 3 vocabulary used. As well as students independently using diagram construction and modelling when interpreting a problem.

Long Term Dep	artmental Plan	ning Overview	Subject:	Mathematics			
Year	Curriculum Title	HT1 topics	HT2 topics	HT3 topics	HT4 topics	HT5 topics	HT6 topics
7	Number	Understanding	Multiply and	Add and Subtract	Operations and	Fractions	Ratio and
		<u>Numbers</u>	<u>Divide</u>	Integers.	special numbers	Order fractions	Proportion
	Ratio and	Ordering and	Integers.	Decimals.	Order of	Fractions of	Compound
	proportion	place value.	By 10,100 and	Negatives.	operations.	amount.	measures.
		Calculating with	1000.	Fractions.	Multiples and	Problem solving	Use and convert
		fractions.	Decimals.	Collect like terms.	Factors.	Percentages	metric measures.
		Rounding and	Negatives.	Term-to-term	Primes.	Percentage of	Scale factors and
		estimating.	Fractions.	sequences.	Powers and roots.	amount.	maps.
		Negative numbers.	Simplify fractions.	Perimeters.	Standard form.	Percentage	Simplify and divide
				Angles sum.		change.	by a ratio.
		Retrieval focus	Retrieval focus		Retrieval focus	Reverse	Proportion
		Numeracy: Times	HT1: Significant	Retrieval focus	HT2: Multiply and	percentages.	problem solving
		tables rapid recall	figures and	HT1: Significant	divide negatives	Financial	eg; conversion,
			estimating	figures and	and fractions	problems.	scaling, mixing etc
			Numeracy: Telling,	estimating	HT3: Add and	Fraction, Decimal	
			converting and	HT2: Multiply and	subtract negatives,	and percentage	Retrieval focus
			working with time	divide negatives	fractions and like	conversion	HT2: Multiply and
				and fractions	terms		divide negatives
				Numeracy: Times	Numeracy: Telling,	Retrieval focus	and fractions
				tables rapid recall	converting and	HT1: Significant	HT4: Writing in
					working with time	figures and	standard form
						estimating	Order of
						HT3: Add and	operations with
						subtract negatives,	negatives
						fractions and like	HT5: fraction and
						terms	percentage
						HT4: Writing in	problem solving
						standard form	
						Order of	
						operations with	
						negatives	
						1	

8	Algebra	Numeracy revision	Numeracy	<u>Solve</u>	Ratio and	Coordinates and	Inequalities
		Multiply integers	<u>revision</u>	Solve linear	proportion	<u>Graphs</u>	Understand what
	Ratio and	and decimals.	Prime	equations with x	Simplify and divide	Plot coordinates in	an inequality is.
	proportion	4 operations	factorisation.	on one side and	by a ratio.	all 4 quadrants.	Plot on a number
		negative numbers.	Compound	on both sides,	Ratio to fractions	Plot straight line	line.
	Numeracy	HCF and LCM	measures.	Construct and	and linear	graphs.	Solve an inequality
	revision	Expressions,	<u>Sequences</u>	solve equations in	functions.	Understand	equation.
		formulae and	Mapping.	problems.	Proportion	gradients and	Algebraic proof
		identities	Nth rule.	Change the	problem solving	intercepts	
		Identify different	Special sequences.	subject of a	eg; conversion,	including parallel	Retrieval focus
		types of algebra.	Recognise	formula.	scaling, mixing etc	and perpendicular	HT2: linear
		Collect like terms.	quadratic	Solve quadratic	Percentages	lines.	sequences
		Expand and	sequences.	equations with	Percentage of	Interpret simple	HT4: percentage
		factorise brackets.	Inverse and	factorising and the	amount.	real life graphs	problem solving
		Expand binomials.	composite	quadratic formula.	Percentage	Plot quadratic	HT5: gradients and
		Index laws	functions.		change.	graphs and use to	intercepts.
		Simplify surds		Retrieval focus	Reverse	solve and find	Y7 HT6: Ratio
		Simplify algebraic	Substitution	HT1: 4 operations	percentages.	turning point.	problem solving
		fractions.	Substitute into	of negative	Financial	Interpret real-life	
		Factorise	expressions.	numbers	problems.	graphs. Including	
		quadratics.	Pythagoras	HT2: linear		distance, speed	
			theorem.	sequences	Retrieval focus	and acceleration.	
		Retrieval focus		Y7 HT3: Add and	HT2: linear		
		Y7 HT1: Significant	Retrieval focus	subtract fractions	sequences	Retrieval focus	
		figures and	HT1: 4 operations	and like terms	HT3: solve linear	HT1: 4 operations	
		estimating	of negative		equations	of negative	
		Y7 HT5: fraction	numbers		Y7 HT4: Writing in	numbers	
		and percentage	Y7 HT2: Multiply		standard form	HT3: solve linear	
		problem solving	and divide			equations	
			fractions			HT4: percentage	
			Y7 HT6: Ratio			problem solving	
			problem solving			Y7 HT5: fraction	
						and problem	
						solving	

9	Statistics	Numeracy revision	Draw and analysis	Numeracy	Geometry	Numeracy revision	Angles
		Multiply integers	tables, charts and	revision	Geometrical	4 operations of	Sum at a point,
	Geometry	and decimals.	graphs_	Multiply integers,	terms.	integers, decimals	straight line,
	-	Round to	Two way tables.	decimals and	Draw and describe	and fractions/	triangle and
	Ratio and	significant figures.	Pictograms.	fractions.	2d shapes, using		quadrilateral.
	proportion		Line graphs.		the correct	Algebra-	Angles in parallel
		Percentages	Bar charts,	Theoretical	property	expressions	lines.
	Numeracy	Percentage of	including	probability	descriptions and	Substitute	Interior and
	revision	amount.	comparative and	Use correct	notation. As well	Collect like terms	exterior angles in a
		Percentage	composite.	probability terms.	as parts of a circle.		regular polygon.
		change.	Pie charts.	Use the	Transformations.	Area and	Sum of interior
		Reverse	Time series.	probability scale 0-	Co-ordinates	<u>perimeter</u>	angles.
		percentages.	Scatter graphs.	1.	problem solving.	2 d shapes.	Bearings
		Financial	Cumulative	Understand	Properties of 3d	Compound shapes.	Congruent
		problems.	frequency.	mutually exclusive	shapes including	Circles.	triangles and
			Histograms.	events equal 1.	nets.	Surface area and	proofs.
		Statistics	Box plots.		Plans and	volume of a	Construction and
		Collecting data		Experimental	elevations.	cuboid.	loci.
		and sampling.	Retrieval focus	probability	Pythagoras.	Length of arcs.	
		Types of data	Y7 HT2: Multiply	Record frequency	Describe	Areas of sectors	Retrieval focus
		Averages including	and divide	of outcomes.	transformations.	Surface area and	Y7 HT6: Ratio
		from a table.	fractions	Analysis	Congruency and	volume of prisms,	problem solving
		Quartiles and	Y8 HT2: linear	probability of	similarity.	pyramids, spheres	Y8 HT6: solve
		interquartile	sequences	experiments using	Vector calculations	and cylinders.	inequalities and on
		range.	HT1: Percentage	tables and	diagrammatic and	Including problem	a number line
			problem solving	frequency trees.	column	solving.	HT2: Pie charts
		Retrieval focus	and averages.	Calculate expected	representations.		Histograms
		Y7 HT1: Significant	Quartiles	outcomes.		Retrieval focus	HT4: Pythagoras
		figures and			Algebra- solve	Y7 HT5: fraction	Similarity
		estimating		Sets and diagrams	Construct and	and problem	HT5: Areas of
		Y8 HT1: 4		Use tables, grids	solve linear	solving	circles
		operations of		and Venn	equations.	Y8 HT5: gradients	Parts of a circle
		negative numbers		diagrams to	Construct and	and intercepts.	
		Simplify surds		organise data.	solve with an	HT1: Percentage	
				Sample space	unknown of both	problem solving	
				diagrams.	sides.	and averages	
						Quartiles	
					Retrieval focus		

		Tree diagrams of independent combined events. Use tree diagrams, two way tables and Venn diagrams independent and dependent events as well as conditional probabilities. Retrieval focus Y7 HT3: Add and subtract fractions and like terms Y8 HT3: solve linear equations HT1: Percentage problem solving and averages. Quartiles HT2: Pie charts histograms	HT2: linear Y7 HT4: Writing in standard form Y8 HT4: percentage problem solving HT2:Pie charts histograms HT3: probability expected outcomes Calculating probability from trees and venn diagrams	HT3: probability expected outcomes Calculating probability from trees and venn diagrams HT4:Pythagoras Similarity	
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10 – Foundation	AQA syllabus	Number	Algebra –	Percentages	Ratio and	Theoretical	Construction and
tier	which is	Ordering and place	Expressions and	Percentage of	Proportion	probability	Loci
	sequenced to	value.	simplify	amount.	Use and convert	Use correct	
	reflect the strong	Rounding and	Identify different	Percentage	metric measures.	probability terms.	Ratio and
	and consistent	estimating.	types of algebra	change.	Scale factors and	Use the probability	proportion
	approach of the	4 operations	and express in	Reverse	maps. Including	scale 0-1.	Use and convert
	KS3 scheme of	including negative	words and vice	percentages.	length, area and	Understand	metric measures.
	learning.	numbers.	versa.	Financial	volume.	mutually exclusive	Compound
		Calculations and	Collect like terms.	problems.	Compound	events equal 1.	measures.
	Numeracy	problem solving	Expand and	Compare	measures.		Scale factors and
	fluency	with fractions and	factorise brackets.	fractions, decimals	Simplify and divide	Experimental	maps. Including
		decimals.	Index laws	and percentages.	by a ratio.	<u>probability</u>	length, area and
	Generalisation of	Order and inverse	Substitution.		Ratio to fractions	Record frequency	volume.
	algebra	operations.		<u>Algebra</u>	and linear	of outcomes.	
		Factors, multiples	<u>Algebra – solving</u>	Sequences	functions.	Analysis	
	Application to	and primes,	Solve Linear	Nth rule.	Proportion	probability of	<u>Graphs</u>
	statistical	including HCF,	equations and	Special sequences.	problem solving	experiments using	Real life graphs
	analysis and	LCM and prime	inequalities.		eg; conversion,	tables and	including
	geometric	factorisation.	Construct		scaling, mixing etc	frequency trees.	conversion graphs
	understanding.	Powers and roots.	algebraic		Mapping	Calculate expected	and kinematic
		Standard form	arguments.			outcomes.	graphs
	Feedback		Represent an		<u>Angles</u>		
	analysis with		inequality on a		Sum at a point,	Sets and diagrams	
	tailored learning		number line.		straight line,	Use tables, grids	
	and development		_		triangle and	and Venn	
	towards GCSEs		Geometry		quadrilateral.	diagrams to	
			Perimeter and		Angles in parallel	organise data.	
	Throughout all		area of 2d shapes		lines.	Sample space	
	areas, where		including a circle		Interior and	diagrams.	
	appropriate, real		and parts of a		exterior angles in a	Use tree diagrams,	
	life context and		circle.		regular polygon.	two way tables	
	links to careers		. .		Sum of interior	and Venn	
	are addressed to		Geometry		angles.	diagrams from	
	ensure all		Surface area.		Bearings	independent and	
	students					dependent events	
	experience					as well as	
	Maths beyond					conditional	
	the classroom.					probabilities.	

					<u>Geometry</u>	
					Pythagoras.	
					Trigonometry in	
					right angle	
					triangles.	
10 Highertier	Number		Deveenteese	Coordina	Theoretical	Coorectra
10 – Higher tier	<u>Number</u>	<u>Algebra – types,</u>	Percentages	<u>Geometry</u>	Theoretical	<u>Geometry</u>
	Ordering and 4	<u>simplify</u>	Percentage of	Sum at a point,	probability	Constructions.
	operations of	Identify different	amount.	straight line,	Use correct	Loci.
	fractions.	types of algebra.	Percentage	triangle and	probability terms.	
	Rounding and	Collect like terms.	change.	quadrilateral.	Use the probability	Ratio and
	estimating.	Expand and	Reverse	Angles in parallel	scale 0-1.	Proportion
	Bounds and error	factorise brackets.	percentages.	lines.	Understand	Scale factors and
	intervals.	Index laws	Financial	Interior and	mutually exclusive	maps. Including
	Product rule for	Substitution.	problems.	exterior angles in a	events equal 1.	length, area and
	counting.		Compare	regular polygon.		volume.
	4 operations	<u>Algebra -</u>	fractions, decimals	Sum of interior	Experimental	Compound
	including negative	Expressions	and percentages.	angles.	probability	measures.
	numbers.	Expand and			Record frequency	
	Calculations and	factorise	Algebra	<u>Geometry – circles</u>	of outcomes.	<u>Algebra – graphs</u>
	problem solving	binomials.	Construct and	Understand parts	Analysis	Draw and interpret
	with fractions and		solve linear	of a circle.	probability of	real life graphs.
	decimals.	<u>Algebra –</u>	inequalities.	Use and Proof of	experiments using	Include velocity
	Converting	expressions,	Represent an	Circle theorems.	tables and	and acceleration.
	recurring decimals.	graphs, solving	inequality on a		frequency trees.	
	Order and inverse	and inequalities	number line.		Calculate expected	
	operations.	Change the	Solve inequalities		outcomes.	
	Factors, multiples	subject.	with 2 variables			
	and primes,	Construct and	including set		Sets and diagrams	
	including HCF,	solve linear	notation and on a		Use tables, grids	
	LCM and prime	equations	graph.		and Venn	
	factorisation.		Solve inequalities.		diagrams to	
	Powers and roots.	<u> Algebra – Solving</u>	Represent an		organise data.	
	Fractional indices.	Solve	inequality on a		Sample space	
	Standard form.	simultaneous	number line, using		diagrams.	
		equations	set notation and		Use tree diagrams,	
		algebraically	on a graph.		two way tables	

Number			and Venn
Simplify surds a	ind Geometry	Algebra	diagrams from
rationalise the	Perimeter and	sequences	independent and
denominator.	area of 2d shapes	Quadratic &	dependent events
	including circles	Geometric	as well as
	and parts of a	Sequences	conditional
	circle as well as		probabilities.
	composite shapes.		
	Surface area	Ratio and	Geometry
		Proportion	Pythagoras.
		Simplify and divide	Trigonometry of
		by a ratio.	right angled
		Ratio to fractions	triangles.
		and linear	2D and 3D
		functions.	Know the exact
		Proportion	values of sin, cos
		problem solving	and tan.
		eg; conversion,	Sine rule.
		scaling, mixing etc	Cosine rule.
		Direct and inverse	½ absinc.
		proportion.	Bearings.

11 – Foundation tier	Co-ordinates and Linear graphs Plot straight line graphs. 	Algebra Change the subject Solve simulations equations Quadratic equations Expand and factorise binomials, including the difference of two squares. Sequences and graphs Recognise quadratic, geometric and recursive sequences. Recognise, sketch and interpret quadratic, cubic,	StatisticsTypes of data, collecting data and sampling.Draw and analysis tables, charts and graphsTwo way tables.Pictograms.Line graphs.Bar charts, including comparative and composite.Pie charts.Time series.Scatter graphs.StatisticsFind and compare averages including from a table.	Geometry Transformations and vectors (column and geometry) Proportion and rates of change Equivalent proportion equations and interpret gradients on straight line graphs. Proportion Direct and inverse proportion	Proportion Growth and decay Topics covered based on RAG analysis of the mock exam.	GCSE Paper1 non- calculator Paper 2 and Paper 3 calculator allowed.
11- Higher tier	Solving Solve quadratics. Iterative process. Algebra Simplify algebraic fractions. Algebra	and reciprocal graphs <u>Ratio and</u> proportion – <u>Algebra – linear</u> <u>Relationships</u> Plot straight line graphs. Understand gradients and intercepts including parallel	Statistics Calculate and compare averages including from a table. Quartiles and interquartile range.	<u>Geometry –</u> <u>transformations</u> Draw and describe single and connected transformations including negative and fractional enlargements.	Proportion and rates of change Interpret gradients and curves as a rate of change and proportional relationship.	GCSE Paper1 non- calculator Paper 2 and Paper 3 calculator allowed.

Inverse and composite functions. Geometry Congruency and properties of 2d shapes. Volume	and perpendicular lines. Linear Sequences (& Other Common Sequences - not Quadratic or Geometric) Graphs Recognise, sketch and interpret linear, quadratic, cubic, reciprocal, and exponential graphs. Algebra Equation of circles & their tangents. Statistics Types of data, collecting data and sampling. Two way tables. Pictograms. Line graphs. Bar charts,	Box plots and cumulative frequency. Functions Sketch and transform trigonometry and quadratic functions.	Geometry - vectors Calculate vectors and Scalar products of vectors. Including proofs. Proportion Interpret growth and decay.	Topics covered based on RAG analysis of the mock exam.	
	collecting data and sampling. Two way tables. Pictograms. Line graphs.				

Y12 – Core maths	AQA level 3 certificate maths qualification that helps students develop their statistical analysis, financial literacy and problem- solving skills	Representations and comparisons of data using various methods	Finance: Tax, National Insurance, Student Loans, Mortgages, Inflation, AER, APR, Exchange Rates Fermi Estimation	Critical Analysis and Normal Distribution.	Confidence Intervals, Correlation and Regression.	Revision and Examination	
Y12 – A-level	AQA A-level qualification that develops problem-solving, analytical Skills research Skills and logical thinking covering	Pure Algebra Polynomials and binomial theorem Trigonometry	Pure Differentiation Exponentials and logarithms	Mechanics Vectors Units and kinematics Statistics Collecting, representing and interpreting data	Mechanics Forces and Newton's law Statistics Probability and discrete random variables Hypothesis testing	Revision and examination	Pure Algebra Sequences
Y13 – A-level	Pure Mathematics, mechanics and statistics modules.	Pure Trigonometry Differentiation	Pure Integration and differential equations Numerical methods	Mechanics Motion in two dimensions Statistics Probability and continuous random variables	Mechanics Forces Statistics Hypothesis testing	Revision and Examination	
	just answering exa		are exposed to activitie so have virtual career e es.				-

Links to careers / jobs	Careers talk (possible contacts)	Career & labour market information	Workplace visit	Encounter with further / higher education
What will your future career be? At age 16 you can't know exactly what you will do in the future, meaning you can't predict what maths you will need. Many people will change	Webinars Hear directly from the experts Go to tool >	Mathematicians and statisticians are in demand across a range of sectors and employment opportunities are commonly found in: • education	Careers library * Careers favourited Go to tool > Unifrog	Subjects library * Subjects favourited Go to tool > Unifrog
careers multiple times, meaning that you need to have a wide understanding of maths to give	Subject discovery: Computer Science • A degree in Computer	 engineering finance, banking and accountancy firms 	Search by keyword or subject search:: MATHS	Search by keyword or subject search: MATHS
you the best possible job options.	Science will teach you how to design and analyse algorithms to solve problems and	 government - local, central and agencies insurance companies IT, business consultancy 	 Croupier Croupiers run the games in casinos and make sure the games take 	Meet Real university student that apply their Maths skills to a variety of courses.
Institute of mathematics	study the performance of computers. You could even learn about artificial intelligence while you're at it!	 and operational research companies market research and marketing companies medicine and health - including private 	place in a fair and friendly manner. Investment banker Investment bankers help companies to raise	 A social science that studies how individuals, governments, firms and nations make choices on allocating scarce
Possible careers after a Maths degree: • Acoustic consultant	Subject discovery: Business and Management	pharmaceutical companies and the NHS	capital.	resources. University of Nottingham
 Acoustic consultant Actuarial analyst Actuary Astronomer Chartered accountant Chartered certified accountant 	 Do you want to play a key role within a business? Are you interested in organising and coordinating the activities of a business to achieve its goals? If 	 petroleum and nuclear industries publicly-funded research institutes space science and astronomy. 	 Financial adviser Financial advisers help people and organisations to choose investments, savings, pensions, mortgages or insurance products. 	Matthew Hills Economics #55 University of Noticestern
 Data analyst Data scientist Investment analyst Research scientist (maths) 	so, Business Management may be right up your street! Subject discovery: Engineering	After completing a Maths degree what type of work do graduates go on to do? • Business, HR and financial 39.8%	Actuary Actuaries work with companies and government departments, to help 	 Civil engineering The design, construction and maintenance the infrastructures that hold

	1	1	1	1
 Secondary school teacher Software engineer Sound engineer Statistician 	 If you're seeking a future that revolves around innovation and assisting mankind in reaching new heights (literally, in the case of Aeronautical 	 Information technology 20.6% Education professionals 12.3% Secretarial and numerical clerks 8.1% 	them forecast long-term financial costs and investment risks. Office manager • Office managers oversee the day-to-day	our physical world together. University of Bath
Bitesize Jobs that use Maths articles to read: Link			_	 Studying a maths degree develops skills in: designing and conducting observational and experimental studies investigating, analysing and interpreting data, finding patterns and drawing conclusions information technology approaching problems in an analytical and rigorous way, formulating theories and applying them to solve problems dealing with abstract concepts presenting mathematical arguments and conclusions with accuracy and clarity advanced numeracy and analysing large guantities of data
				 logical thinking.