Curriculum Content Map			Subject: Year 11 Maths - Foundation										
Mon	th		Sentember	Term 1 October	November	December	lanuary	Tebruary	erm 2 March	Anril	Мах	Term 3	luly
WOT	×		1) Ratio and Proportion	Probability	Multiplicative Reasoning	Gap filling	Quadratic Equations and Graphs	Perimeter, Area and Volume 2	Fractions, Indices and Standard Form	Congruence, Similarity and Vectors	More Algebra	Julie	July
	Wor		RATIO	DATA	NUMPED		ALCERRA	Constructions, Loci and Bearings	NUMBER	SHADE	ALCERDA		
	s of		2) Right-Angled Triangles	2010	HUMBER		ALGEBIA	STAFE	NUMBER	STREE	ALGEBIA		
	Unit		SHAPE										
	National Curriculum area – KS4		1) "convert between related compound units	"apply the property that the probabilities of	"convert between related compound units	During December students were re-taught	"factorising quadratic expressions of the form	"identify and apply circle definitions and	"calculate with roots, and with integer	"interpret and use fractional scale factors for	"where appropriate, interpret simple		
			(speed, rates of pay, prices, density, pressure) in numerical and algebraic contexts"	an exhaustive set of mutually exclusive events sum to one"	 (speed, rates of pay, prices, density, pressure) in numerical and algebraic contexts" 	 content that was identified on Q by Q analysis documents following AP1 assessments, Year 	ax2+bx+c, including the difference of two squares"	properties, including: centre, radius, chord, diameter, circumference, tangent, arc, sector	indices"	enlargements"	expressions as functions with inputs and outputs"		
						group gaps were identified first and then		and segment"	"calculate exactly with fractions and multiples	apply the concepts of congruence and			
			 "apply Pythagoras' Theorem and trigonometric ratios to find angles and lengths 	"use a probability model to predict the outcomes of future experiments; understand	"set up, solve and interpret the answers in growth and decay problems, including	more personalised gaps in all 3 maths papers.	"identify and interpret roots, intercepts and turning points of quadratic functions	"calculate arc lengths, angles and areas of	of π"	similarity, including the relationships between lengths, in similar figures"	"recognise, sketch and interpret graphs of linear functions, quadratic functions,		
			in right-angled triangles in two dimensional	that empirical unbiased samples tend towards	compound interest"		graphically; deduce roots algebraically"	sectors of circles"	"calculate with numbers in standard form		simplecubic functions, the reciprocal function"		
			tigures"	theoretical probability distributions, with increasing sample size"	"interpret equations that describe direct and		"plot and interpret graphs"	"calculate surface areas and volumes of	Ax10 [^] n, where 1 ≤ A < 10 and n is an integer"	"describe translations as 2D vectors"	"plot and interpret graphs (including		
					inverse proportion"			spheres, pyramids, cones and composite		"apply addition and subtraction of vectors,	reciprocal graphs {and exponential graphs})		
				combined events, including using tree			factorising; find approximate solutions using a	solias		diagrammatic and column representations of	contexts, to find approximate solutions to		
				diagrams and other representations, and			graph"	"compare lengths, areas and volumes using		vectors"	problems such as simple kinematic problems		
lission				know the underlying assumptions				to similarity (including trigonometric ratios)"	\$		involving distance, speed and acceleration		
								"construct and interpret plans and elevations			"solve two simultaneous equations in two		
								of 3D shapes"			approximate solutions using a graph"		
								"interpret and use hearings"					
								interpret and use bearings					
Ľ	Substantive Knowledge		1) Using ratio	Tree Diagrams		Topics re-taught to whole cohort doing higher	Expand double brackets, including square	Semi-circles	Laws of Indices	Similar Shapes	Cubic & Reciprocal Graphs		
ltural Trans			Measures Proportion Graphs			tier: Transformations	single brackets Plotting quadratic graphs	Sectors Pyramids	Writing Standard Form Calculating with Standard Form	Congruency Vectors	Non-Linear Graphs Solving simultaneous equations graphically		
						Solving inequalities and numbr lines	Solving quadratic equations using a graph	Cones			and algebraically		
		The What!	2) Trigonometry			Scale Drawings Ratios	Factorising quadratic expressions Solving quadratic expressions through	Spheres Composite 3D shapes			Rearranging formulae Proof		
						Interior angles of polygons	factorising	Plans and Elevations					
						Graph Drawing given an equation		Accurate Drawingsand Loci					
			1) Understanding proportion	Drawing & completing diagrams	Understanding Compound Interest, Growth &	Dependent on individuals and what is	Multiplying algebraic terms	Using formulae	Understanding powers	Understanding ratio & proportion	Drawing & Plotting Graphs		
	Disciplinary knowledge		Drawing & plotting graphs		Decay Understandig Compound Measures	included in their personalised learning booklet.	Drawing a plotting graphs Using Common Factors	Understanding pi Drawing 2D and 3D shapes	Understanding how to Multiply and Divide by powers of 10	Understanding co-ordinates and translation	Using Substitution Using Inverse Operations		
		The How!	2) Using formulae / formula triangles		Using Direct & Inverse Proportion Formulae		Solving equations	Understanding ratio & proportion					
n								Using a ruler and a protractor					
	Sequencing (Flow)	,uo	1) Builds from KS3:	Builds from KS3:	Builds from KS3:	Teaching halted to ensure all gaps in	Builds from Y10:	Builds from KS3:	Builds from KS3:	Builds from KS3:	Builds from Y10:		
		tensi	Ratio Proportion	Calculating Probability Experimental Probability	Multiplicative Reasoning	knowledge, identified from AP1 assessments, have been filled.	Equations Graphs	Constructing Triangles Builds from Y10:	Indices Standard Form	Comparing Shapes	Algebra Skills		
		& EX	Multiplicative Reasoning	Venn Diagrams	Builds from Y10:	Firstly completed for gaps for whole year		Perimeter	Duilde form V10	Builds from Y10:			
		sval	2) Builds from Y10:		Fractions	Secondly for gaps for individuals and		Volume	Indices	Transformations			
		Retri	Indices		Percentages	personalised learning booklets made.		Transformations Angle Rules	Fractions				
	Summative Assessment		1) Deep Mark 1: End of Topic Test - Ratio &	Deep Mark 2: Homework	Deep Mark 1: AP1 Assessment (Mock) - Whole	e Deep Mark 1: AP1 Assessment (Mock) - Whole	Deep Mark 1: AP2 Assessment (Mock) - Whole	e Deep Mark 2: Homework	Deep Mark 1: AP3 Assessment (Mock) - Whole	e Deep Mark 2: Homework	Deep Mark 1: Homework		
			Homework	End of Topic Test - Probability	School Data Collection	School Data Collection	School Data Collection		School Data Collection	End of Topic Test - Congruence, Similarity &	End of Topic Test - More Algebra		
			2) End of Tonic Test - Right-Angled Triangles		End of Topic Test - Multiplication Reasoning	Homework Booklet made for the Christmas Holidays All preparation for AP2	End of Topic Test - Quadratic Equations and Graphs		End of Topic Test - Fractions, Indices & Standard Form	Vectors			
			Homework		Homework				Standard Form				
							Homework		Homework				
Personal Empowerment	Virtue		Friendliness & Civility	Justice & Truthfulness	Courage	Generosity	Gratitude	Good Speech	Good Temper & Humour	Self-Mastery		Compassion	Good Sense
					-								,
	6	The opportunity to	1) Students will look at the friendliness of	Students will look at the truthfulness behind	Students will demonstrate courage as they	Students will be generous in their time and	Students will show gratitude for the work	Students will demonstrate good speech as	Students will need to control their temper and	d Students looked at congruency and similarity	Students will spend this last topic ensuring		
		reflect, think deeply and	sharing and discuss how fair and unfair sharing in a ratio can be.	probability and the difference between theoretical and experimental probability	complete a functional skills task on mortgages. Students will also look at direct	support of each other as they complete their personalised learning booklets.	they've completed in Year 10 to ensure they understand how to substitute values and plot	they discuss the formulae for area and volumes of different shapes, especially as the	demonstrate good humour as they extend y their fractions knowledge, which they can find	in Year 10 so this topic is about mastering those skills and extending them into vectors	they have mastered their algebra skills in preparation for their upcoming exams.		
	/irtu	critically about an issue.			and inverse proportion using formulae, which		graphs	move onto circles.	increasingly difficult.	skills.			
	Link to \		2) Students will demonstrate friendliness by working closely together to support		will require courage to persevere.								
			development of problem-solving as they calculate with Pythagoras' Theorem and										
			Trigonometry.										
۲.											•		
Preparation for Work	Skill	6	Listening	ning Leadership	Problem-Solving	Creativity	Staying Positive	Speaking	Staying Positive	Aiming High		Speaking	Teamwork
	Link to Skill	skills	1&2) Students will have discussions where	Students will look at the relationship between	Students will regularly use problem-solving	Students will show creativity as they choose	Students will need to stay positive as they	Students will demonstrate good speaking skill	Is Students often find fractions a difficult topic	Vectors are considered a high-grade skill at	Students will be aiming high as they		
		able	they listen to each other and then feedback	probability and leadership in terms of	within this topic whilst re-arranging and using	which sections of their personalised learning	substitute into quadratic equations, especially	as they discuss the formulae for area and	so will need to stay positive and demonstrate	Foundation tier and so students will need to	consolidate and extend their algebra skills in		
		nsfer	Unit 1 links to careers in banking and finance.	This unit links to careers in research as well as	methods.	bookiet they will do first.	This unit links to careers in science,	move onto circles.	difficult problems.	Additionally, students will need to aim high as	This unit links to careers in business, finance		
		Tra	Unit 2 links to careers in architecture, design	government.	This unit links to careers in healthcare,		management and agriculture.	This unit links to careers in design, planning	This unit links to careers in science.	they focus on building their similarity skills to	and computing.		
					accountancy and supply chains.			and construction.		This unit links to careers in navigation and			
	a			Social	Social	Social				geography.	Social		
Preparation for Citizenship	SMSC 8 British Values	sues	Social	Moral	Moral	Cultural	Social	Social	Social	Social	Moral		
		nt is:	Mutual Respect	Democracy	Rule of Law	Tolerance	Rule of Law	Individual Liberty	Tolerance	Mutual Respect	Rule of Law		
	nes	cure	Students will use their social skills to	Students will use their social skills as they	Students will use their social skills to support	Students will use their social skills and work	Students will need to use their social skills as	Students will use their social skills to work	Students will use their social skills to work	Students will use their social skills to work	Students will use their social skills to support		
	۲ val	no st	work through paired and group work.	Students will discuss the moral repercussions	through paired and group work.	through identifying the correct answers to	usey work together in group activities.	together in paired and group activities.	through bigger problems.	paired and group activities.	algebra they tackle gets more difficult.		
	k to SMSC & British	inior	Students will show mutual respect for each	of gambling and how probability, or misrepresentation of probability, can impost	Students will look at the moral consequences	questions in their personalised learning hooklets	Students will need to understand the rules	Students will understand their individual	Students will need to demonstrate tolorgood	Students will show mutual respect throughout	Students will look at the moral repercussions		
		do bi	other as they work, even when they disagree	this.	or metrost, particularly pay-uay loans.	500mEL3	factorising to be able to understand the links	formula needed for a question.	as they are patient enough to allow all	this topic as each progresses at an individual	or not neiping each other.		
		lopir	with an answer.	Students will investigate probability in terms	Students will look at the 'rule of law' in terms of the formulae, process and method for		between both methods.		students to make progress and develop understanding.	rate - they will support each other rather than get frustrated.	Students will use the 'rule of laws' in algebra to understand how it all links together.		
		Deve		of voting and link this back through to democracy.	calculating proportion and compound measures.						-		
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