Curriculum Overview Template

	Focus	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summe
							r 2
	Торіс	Parametric equations, Further trigonometry	Kinematics in 2D, Equilibrium and resolving.	Statics and dynamics, differential equations	Applications of differential equations,	Revision/extern	External
	K -	Introducing personatria equations locking at	Vectors.	Applying your 1 knowledge of growity and	Moments	al exams	exams
	Кеу	Introducing parametric equations, looking at	Taking key concepts from year 1 kinematics	Applying year I knowledge of gravity and	Applying knowledge of differential equations		
	concepts/idea	Trigonometry: compound and double angle	and apprying them in 2 dimensions.	norticles in two dimensions friction forces	moment is its units uses and equilibrium		
	S	identities and alternative forms of	Applying vector knowledge to 3 dimensions	on slopes. Understanding rate of change as a			
		trigonometric equations.	Understanding that any force at any angle is	differential, and using initial conditions to			
			the resultant of horizontal and vertical	find constants of integration.			
			components.				
	Key skills	Parametric differentiation, equations of	SUVAT equations in vector form, variable	Splitting velocities into component form,	Using differential equations in situations		
		tangents and normal in parametric form.	acceleration in vector form, differentiation	applying knowledge of kinematics in 2D from	involving variable acceleration or variable		
		Converting between cartesian and	and integration of expressions in vector	Autumn 2 to motion under gravity. Using	forces. Can find the moment of a force		
		parametric equations.	form. Understanding and applying Lami's	compound/double angle formulae in a	around a point and can see where to take a		
S		Device and use the service and end deviate	theorem, resolving forces into vertical and	mechanics setting. Setting up differential	moment about in order to simplify a		
Ū		Derive and use the compound and double	norizontal components. Reinforcing the	equations from the information given, and	problem.		
al		equations and prove identities. Use of R a	stationary	Understanding and using integrational			
۲.		forms to sketch trigonometric curves and		constants, and replacing e^{c} with A.			
e		solve equations.					
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<u>ا/د</u>	Vou	Parametric cartesian elimination	Equilibrium variable Lami's theorem	Brojectile components differential rate of	Moment, nouten metro, reactional force		
Ľ	Key	substitution compound angle	component form, resultant	change coefficient of friction u	equilibrium		
	terms/vocab	substitution, compound angle	component form, resultant	change, coefficient of metion, µ,			
m	Independent	https://sites.google.com/view/tlmaths/home	https://sites.google.com/view/tlmaths/home	https://sites.google.com/view/tlmaths/home	https://sites.google.com/view/tlmaths/home		
Η	learning /	/a-ievel-mains/juil-a-ievel/c-coordinate-	<u>/a-rever-matns/2nd-year-only/q-</u>	<u>/a-rever-maths/2nd-year-only/q-</u>	/d-level-maths/2nd-year-only/n-		
	wider reading	geometry/co-parametric-equations	Kinematics/ q5-suvat	Kinematics/ q5-projectiles			
Ğ		https://sites.google.com/view/tlmaths/home	https://sites.google.com/view/tlmaths/home	https://sites.google.com/view/tlmaths/home	https://sites.google.com/view/tlmaths/home		
\succ		/a-level-maths/2nd-year-only/e-	/a-level-maths/2nd-year-only/q-	/a-level-maths/2nd-year-only/r-forces-and-	/a-level-maths/2nd-year-only/r-forces-and-		
		trigonometry/e6-compound-angles-	kinematics/q4-calculus-in-kinematics	newtons-laws/r4-newtons-third-law-and-	newtons-laws/r5-fma-differential-equations		
		<u>equivalent-forms</u>		pulleys			
			https://sites.google.com/view/timaths/home		https://sites.google.com/view/timaths/home		
			/a-level-maths/2nd-year-only/j-vectors/j5-	nttps://sites.google.com/view/timaths/home	<u>/a-level-maths/2nd-year-only/s-</u>		
				newtons-laws/r6-the-coefficient-of-friction			
	Assessment	Recap test on all year 1 content	Test on year 2 content studied in this	Progress exam containing all areas of the	Test on year 2 statistics, and other content	External Exams	External
			academic year.	course except year 2 statistics	not covered in progress exam		Exams
	Concerne Red a						
	Careers links	Software developer animator economist	Cyber intelligence officer perosnace	Civil engineer maths teacher investment	Mechanical engineer physicist entrepreneur		
		solution developer, animator, economist	engineer. meteorologist	analyst			
				, <i>,</i>	1		