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	Bishop Stopfo	rd's School																
		Curricul	um Ma	p Year 12		_												
	Pure 1	Autumn 1 Mechanics 1		Autumn 2 Pure 1	Mechanics 1	Pure 1	Spring 1 Mechanics 1	1	Pure 1	Spring 2 Mechanics 1	Statistics 1	Pure 2	Summer Mechanics	1 Statistics 1	Summe Pure 2	er 2 Mechanics 2		
×	1. Algebra and functions 4. Trinopometry	6. Quantities and units	ĺ	2. Coordinate geometry in the (x, y) plane 4. Trinopometry Part 2.	7. Kinematics 1	3. Further Algebra	8. Forces & Newton's		8. Exponentials and	9. Kinematics 2	1. Statistical sampling 2. Data presentation and	1. Proof 2. Algebraic and	Revisit gaps	4. Statistical	3. Functions and modelling 6	Moments		
of wo	Part 1	in meetings		Vectors S.	acceleration)	7. Integration			Revisit gaps on Year	acceleration)	interpretation	partial	and	5. Statistical	ingonomen y			
Unit									papers		3. Probability	Interleaving	exam	nypotnesis testing				
	Collection like terms and	Changes feesly between		Dasis alashesis manimulation	Channes feasible	Fastarisian	Medalline and		Indiana	Identify and	Complian	topics from AS	papers	Order equition and	Marshulan, and f(-) antation for	Cabrica linear		
	factorising	related standard units		Quadratics	between related	quadratics	definitions/assumption	>	Compound interest	interpret roots,	Tables, charts and	Algebraic		negative integers,	functions	and		
	Solving linear	volume/capacity, mass)		Simultaneous equations	(e.g. time, length,	Solving quadratics	introduction in Unit 6			turning points of	frequency tables, bar	Algebraic		fractions; use the	transformations of polynomial	equations		
	Solving quadratic	(e.g. speed, rates of		Basic algebraic manipulation	volume/capacity,	Proof	simultaneous			functions	pictograms for	theorem		symbols =, ≠, <, >, ≤, and ≥	Knowledge of polynomial,	equilibrium		
	equations (by factorising and completing the	pay, prices, density, pressure) in numerical		Quadratics Graph transformations	mass) and compound units	Function notation Indices	equations in two variables (linear/linea	ır		graphically; deduce roots	categorical data, vertical line charts for ungrouped			An understanding of how to	trigonometric, exponential and logarithmic functions, including			
	square) Working with inequalities	and algebraic contexts Use compound units		Surds	(e.g. speed, rates of pay, prices,	Algebraic manipulation	or linear/quadratic) algebraically; find			algebraically and turning points	discrete numerical data and know their			calculate binomial probabilities and	their graphs AS Transforming graphs			
	Solving quadratic	such as speed, rates of			density, pressure)		approximate			by completing	appropriate use			using samples	Sine and cosine function			
	Functional notation and	density and pressure			algebraic contexts		graph			A14 Plot and	and unequal class			from previous	Algebraic division, factor			
	graphs	graphs (including			units such as		vectors in 2D			(including	frequency graphs, and			units	Solving trigonometric equations			
	Rules of indices Simultaneous equations	reciprocal graphs and exponential graphs)			speed, rates of pay, unit pricing,					reciprocal graphs and	know their appropriate use				(sin ² x+cos ² x=1 and			
	Completing the square Quadratics	and graphs of non- standard functions in			density and pressure					exponential graphs) and	Interpret, analyse and compare the distributions				(sin x)/(cos x)=tan x Properties of graphs of y = sin x,			
	Graph transformations	real contexts to find approximate solutions			Substitute numerical values					graphs of non- standard	of data set Scatter diagrams and line				y = cos x and y = tan x			
		to problems such as simple kinematic			into formulae and expressions,					functions in real contexts to find	of best fit Record, describe and							
		problems involving distance speed and			including scientific formulae					approximate solutions to	analyse the frequency of outcomes of probability							
2		acceleration			Understand and					problems such	experiments using tables							
ire Ski		gradients of graphs and			mathematical					kinematic	Relative expected							
ð	Pure 1	area under graphs		Pure 1	Mechanics 1	Pure 1	Mechanics 1		Pure 1	Mechanics 1	Statistics 1	Pure 2	Mechanics	Statistics 1	Pure 2	Mechanics 2		
	Algebraic expressions Quadratic functions	Introduction to mathematical		Trigonometric identities and equations Straight-line graphs	Graphical representation of	Algebraic division, factor theorem and	Newton's first law, force diagrams,		Exponential functions Natural	Variable force; Calculus to	Introduction to sampling terminology; Advantages	Examples including		Use discrete distributions to	Arithmetic and geometric progressions (proofs of 'sum	Forces' turning	Б	
	Equations Graphs	modelling and standard S.I. units of length, time		Circles	velocity, acceleration and	proof The binomial	equilibrium, introduction to i, j		logarithms	determine rates of change for	and disadvantages of sampling	proof by deduction*		model real-world situations;	formulae')			
	Transformations Trigonometric ratios and	and mass Definitions of force.			displacement Motion in a	expansion Definition.	system Newton's second law			kinematics Use of	Understand and use sampling techniques:	and proof by contradiction		Identify the discrete uniform	Sigma notation Recurrence and iterations			
	graphs	velocity, speed, acceleration and weight			straight line under	differentiating polynomials_secor	'F = ma', connected	,		integration for kinematics	Compare sampling techniques in context	Simplifying		distribution; Calculate	Radians (exact values), arcs and sectors			
		and displacement;			acceleration; suvat	derivatives	forces or use of F =	,		problems i.e.	Calculation and	fractions		probabilities using	6			
		quantities			constant	normals, maxima a	nd law: equilibrium,			and integration	measures of location;	Partial		distribution	sinairangies			
					Vertical motion	Definition as oppos	ite smooth pulleys			or polynomials	interpretation of	tractions		expected)	(definitions, identities and			
ledge					under gravity	of differentiation, indefinite integrals	of				measures of variation; Understand and use			Language of hypothesis	graphs); Inverse trigonometrical			
Know						xn Definite integrals a	nd				coding Interpret diagrams for			testing; Significance levels	functions; Inverse trigonometrical functions			
e S						areas under curves					single-variable data; Interpret scatter			Carry out hypothesis tests	Compound* and double (and half) angle formulae			
											diagrams and regression			involving the	*geometric proofs expected			
											interpret outliers; Draw			distribution	Proving trigonometric identities			
											statistical problems				(e.g. mechanics)			
											events; Independent							
											events							
ĸk	Mini assessments at the e	end of each unit. Green fe	edback	Mini assessments at the end of each unit. Green	n feedback sheets with next	Mini assessments	at the end of each unit. Gre	een feedback sheets with	Mini assessments a	the end of each u	nit. Green feedback sheets	Mini assessme	nts at the end	l of each unit.	Mini assessments at the end of	each unit. Green f	feedback	
1-eedb	heets with next step question for students to complete. The step question for students to complete. The assessments and feedback sheets are kept in students' folder.				essments and feedback shee	ts next step question feedback sheets ar	s next step question for students to complete. The assessments and feedback sheets are kept in students' folder.			on for students to edback sheets are	b complete. The kept in students' folder.	for students to	complete. Th	next step question e assessments and	sheets with next step question for students to complete. The assessments and feedback sheets are kept in students'			
ent &												feedback sheet	s are kept in :	students' folder.	folder.			
EXQ																		
2	Core skills are reviewed as	s starters and set as home	work to	Core skills are reviewed as starters and set as he	omework to reinforce core	Core skills are revie	wed as starters and set as	homework to reinforce	Core skills are review	ved as starters and	d set as homework to	Core skills are r	eviewed as st	arters and set as	Core skills are reviewed as starters and set as homework to		mework to	
le arni	einforce core knowledge knowledge g				core knowledge			reinforce core know	edge		homework to r	einforce core	knowledge	reinforce core knowledge				
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