

Argand Diagrams  Matrices  Series  Momentum and Impulse  Linear Transformations  Volumes of Revolution  Volumes of Revolution  Core Pure I Chapters 1,2,6,7  Complex numbers - multiplying, conjugation, roots of quadratics, cubics, quartics  Momentum and Impulse  Volumes of Revolution  Proof  Further Statistics I Chapters 1,2  Poisson Distribution  Momentum and Impulse  Power  Further Statistics I Chapters 4,6  Pirther Statistics I Chapters 1,2  Pirther Statistics I Chapters 4,6  Pirther Statistics I Chapters 1,2  Pirther Statistics I Ch		,	Year I2 Furt	her Mathemat	ics Curriculun	n Map	
Argand Diagrams Matrices  Core Pure I Chapters 1, 2, 6, 7 Complex numbers multiplying, conjugation, roots of quadratics, quartics Agardiagrams – modulus and argument form, loci in the argand diagrams – modulus and argument form, loci in the argand diagrams regions Matrices - multiplication, determinants, inverting 2 x2 and 3x3, simultaneous equations, modelling Variables  Variables  Chi-Squared Tests Eiastic Collisions in One Dimension  Complex Numbers Method of differences & Maclaurin Series  Further Statistics I Chapters 1, 2 DRVs - expected value, variance, functions of DRVs, problem solving of black product, angles between lines and planes, points of intersection and perpendiculars  Vectors  Volumes of Revolution  Volumes of Revolution  Volumes of Revolution  Core Pure I Chapters 3, 4, 5, 8, 9 Posors - of quadratics, cubics, quartics expressions and transformations  Vectors  Volumes of Revolution  Momentum and Impulse  Work, Energy and Power  Chapters 1, 2 DRVs - expected value, variance, functions of DRVs, problem solving of black product, angles between lines and planes, points of intersection and perpendiculars  Vectors  Volumes of Revolution  Core Pure I Chapters 4,6 Pupothesis tests - for the mean of a Poisson distribution, finding critical fractions, maclaurin series  Poss man and variance of PDs and Binomail distributions, approximation  Further Mechanics I Chapters 1, 2 Complex numbers - the mean of a Poisson distribution, finding critical fractions, maclaurin series  Contingency tables  Further Statistics I Chapters 4,6 OH) proteis tests - for the mean of a Poisson distribution, finding critical fractions, maclaurin series  Chi-fis-squared - goodness of fit, degrees of freedom, testing protein powers and series using partial fractions, maclaurin series  Further Mechanics I Chapters 1, 2 Ocomplex notes of unity  Differences & Maclaurin Series  Conject Vision of the series of the mean of a Poisson distribution, finding critical freedom, testing protein powers - de Moivre's theorem, know and use z re	<b>Half Term</b>	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Matrices Linear Transformations Volumes of Revolution Volumes of Guadratics of Lopaters 1, 2 Chapters 1, 2 Chapters 1, 2 Chapters 1, 2 Further Statistics I Chapters 1, 2 Chapters 1, 2 Further Statistics I Chapters 1, 2 Further Statistics I Chapters 1, 2 Further Mechanics I Chapters 3 Classic Collisions of the mean of a Poisson distribution, finding critical regions for a PD Schiquarion of Ric dgreens of Further Mechanics I Chapters 1, 2 Nomental of Revolutions, approximation of includence of fluored intersection and perpendiculars Series - sums of natural of the mean of a Poisson Olivariance, functions of PD Schiquariance, functions of PD Schiquariance, and a Poisson Olivariance, functions of PD	<b>Big Themes</b>	Complex Numbers	Roots of Polynomials		Hypothesis testing	Revision	Revision
Linear Transformations    Proof   Wolumes of Revolution   Work, Energy and Power		Argand Diagrams	Vectors	Poisson Distribution	Chi-Squared Tests	External AS Exams	
Knowledge and skills Covered  Core Pure I Chapters 1,2,6,7  Complex numbers - multiplying, conjugation, roots of quadratics, cubics, quartics  Argand diagram - modulus and argument form, loci in the argand diagram, regions  Martices - multiplication, determinants, inverting 2x2 and 3x3, simultaneous equations, modelling  Transformations - in 2D, reflection and rotation, in 3D, inverses  Core Pure I Chapters 1,2,5,8,9  Roots - of quadratics, cubics, quartics, expressions and transformations of lines and planes in 3D, scalar product, angles between lines and planes, points of interestion and perpendiculars  Series - sums of natural numbers, sums and squares of cubes  Nolumes - around the x-axis, around the x-axis, adding and subtracting volumes, modelling  Nolumes - around the x-axis, adding and subtracting volumes, modelling  Nolumes of Revolution  Work, Energy and Power  Further Statistics I Chapters 4,6  PSVs - expected value, variance, functions of DRVs, problem solving  PDS, rependiculars  Nolumes - around the x-axis, adding and subtracting volumes, modelling  Nolumes - around the x-axis, adding and subtracting volumes, modelling  Nolumes - around the x-axis, adding and subtracting volumes, modelling  Nolumes - around the x-axis, adding and subtracting volumes, modelling		1 1001 1000					Complex Numbers
Chapters 1,2,6,7		Linear Transformations		Work, Energy and			Method of differences & Maclaurin Series
Cowpred      Complex numbers - multiplying, conjugation, roots of quadratics, cubics, quartics     Argand diagrams - modulus and argument form, loci in the argand diagram, regions     Matrices - multiplication, determinants, inverting 2x2 and 3x3, simultaneous equations, modelling     Transformations - in 2D, reflection and rotation, in 3D, inverses      Ocomplex numbers - multiplication, cookies, quartics, quartics, quartics, quartics     OpR/s, problem solving Pos, mean and variance of DRVs, problem solving Pos, mean and variance of Pos and Binomial distributions, approximation Further Mechanics I      Chapters 1, 2     Oprose proving Pos, mean and variance of possion - modelling adding Pos, mean and variance of Pos and Binomial distributions, approximation further Mechanics I      Chapters 1, 2     Oprose polem solving Pos, mean and variance of Pos and Binomial distributions, approximation further Mechanics I      Chapters 1, 2     Oprose problem solving Pos, mean and variance of Pos and Binomial distributions, approximation product, angles between lines and planes, points of intersection and perpendiculars     Operation of modelling adding Pos, mean and variance of Pos and Binomial distributions, approximation further Mechanics I      Chapters 1, 2     Oprose policing adding Pos, mean and variance of Pos and Binomial distributions, approximation further Mechanics I      Chapters 1, 2     Oprose policing adding Pos, mean and variance of product, angles between lines and planes, points of intersection and perpendiculars     Oprose policing adding Pos, mean and variance of product, angles between lines and planes, points of intersection and perpendiculars     Oprose policing adding Pos, mean and variance of product, angles between lines and planes, points of intersection and potential energy.      Oprose solving     Op	Knowledge					CPI	
multiplying, conjugation, roots of quadratics, cubics, quartics Argand diagrams - modulus and argument form, loci in the argand diagram, regions Matrices - multiplication, determinants, inverting 2x2 and 3x3, simultaneous equations, modelling Transformations - in 2D, reflection and rotation, in 3D, inverses  Transformations - in 2D, reflection and rotation, in 3D, inverses  multiplying, conjugation, roots of quadratics, cubics, quartics, expressions and transformations expressions and transformations  variance, functions of DRVs, problem solving Poisson - modelling, adding PDs, mean and variance of PDs and Binomial distributions, approximation of intersection and perpendiculars Series - sums of natural distributions, finding critical regions for a PD  variance, functions of DRVs, problem solving Poisson - modelling, adding Product, angles between lines and planes, points of intersection and perpendiculars Series - sums of natural distributions, approximation of intersection and perpendiculars Series - sums of natural numbers, sums and squares of cubes Proof - induction, divisibility results, matrix statements Volumes - around the x-axis, around the x-axis, around the y-axis, adding and subtracting volumes, modelling volumes, modelling, adding product, angles between lines and planes, points of intersection of planes, points of fit, degrees of freedom, testing hypothesis, contingency regions for a PD  Chi-squared - goodness of fit, degrees of freedom, testing hypothesis, contingency tables Further Mechanics I  Chapters 1, 2  Chapters 1, 2  Momentum  Work - work done, kinetic argondess of fit, degrees of freedom, testifue to poor fit contingency to contingency tables  Further Mechanics I  Chapters 1, 2  Chapters 1, 2  When the mean of a Poisson distribution, finding critical regions for a PD  Chi-squared - goodness of fit, deg	and skills						
roots of quadratics, cubics, quartics  Argand diagrams - modulus and argument form, loci in the argand diagram, regions  Matrices - multiplication, determinants, inverting 2x2 and 3x3, simultaneous equations, modelling  Transformations - in 2D, reflection and rotation, in 3D, inverses  Prof - induction, divisibility results, matrix statements  Volumes - around the x-axis, around the y-axis, adding and subtracting volumes, modelling  Posson - modelling pDs, mean and variance of PDs and Binomial distributions, approximation  Pos and Binomial distribution, finding critical regions for a PD  Chi-squared - goodness of fit, degrees of freedom, testing hypothesis, contingency tables  Further Mechanics I  Chapters 3  Elastic collisions - direct impact, restitution, smooth planes, loss of kinetic energy, successive direct impacts  Further Mechanics I  Chapters 3  Elastic collisions - direct impact, restitution, smooth planes, loss of kinetic energy, successive direct impacts  Argand diagrams - modelling adding PDs, mean and variance of PDs and Binomial distributions, approximation  Further Mechanics I  Chapters 3  Elastic collisions - direct impact, restitution, smooth planes, loss of kinetic energy, successive direct impacts  The mechanics I  Chapters 3  Elastic collisions - direct impact, restitution, smooth planes, loss of kinetic energy, conservation of mechanical energy, conservation of mechanical energy, principle, power  The mechanics I  Chapters 3  Elastic collisions - direct impacts  Elastic collisions - direct impacts  The mechanics I  Chapters 3  Elastic collisions - direct impacts  The mechanics I  Chapters 3  Elastic collisions - direct impacts  The mechanics I  Chapters 3  Elastic collisions - direct impacts  The mechanics I  Chapters 3  Elastic collisions - direct impacts  The mechanics I  Chapters 3  Elastic collisions - direct impacts  The mechanics I  Chapters 3  Elastic collisions - direct impacts  The mechanics I  Chapters 3  Elastic collisions - direct impacts  The mechanics I  Chapters 3  Elastic c	covered	•	· ·			Further Stats I	
		roots of quadratics, cubics, quartics  • Argand diagrams - modulus and argument form, loci in the argand diagram, regions  • Matrices - multiplication, determinants, inverting 2x2 and 3x3, simultaneous equations, modelling  • Transformations - in 2D, reflection and rotation, in	expressions and transformations  • Vectors - equations of lines and planes in 3D, scalar product, angles between lines and planes, points of intersection and perpendiculars  • Series - sums of natural numbers, sums and squares of cubes  • Proof - induction, divisibility results, matrix statements  • Volumes - around the x-axis, around the y-axis, adding and subtracting	DRVs, problem solving Poisson - modelling, adding PDs, mean and variance of PDs and Binomial distributions, approximation Further Mechanics I Chapters I, 2 Momentum - in one direction, conservation of momentum Work - work done, kinetic and potential energy, conservation of mechanical energy, work energy	distribution, finding critical regions for a PD  • Chi-squared - goodness of fit, degrees of freedom, testing hypothesis, contingency tables  Further Mechanics I  Chapters 3  • Elastic collisions - direct impact, restitution, smooth planes, loss of kinetic energy, successive direct	Further Mechanics I	<ul> <li>and use z = reiθ, nth roots, complex roots of unity</li> <li>Differences - summation of series using partial fractions, maclaurin series of a function including the general term, when series are valid for common</li> </ul>
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