

Roundwood Park School Curriculum Map – Maths (YR12 Further Maths)

A curriculum that stimulates curiosity, values diversity and offers challenge.

We help every student to love learning for life, to follow their passions and to reach their full potential.

Year 12	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Unit of Work	AS Further Core	AS Further Core	AS Further Core	AS Further Core	AS Further Statistics	AS Further Mechanics
	Complex numbers,	Series, roots of	Matrices, linear	Proof by induction,	Discrete random	Momentum and impulse,
Key Knowledge	Argand diagrams	polynomials, volumes of	transformations	vectors	variables, Poisson	work, energy and power
or		revolution			distributions, Geometric	
Enquiry					and negative binomial	
Question					distributions, hypothesis	
					testing, central limit	
					theorem	
Concepts	Students will be developing critical thinking skills as we nurture a classroom culture in which mathematical discussion is part of the daily routine. Students will be developing problem solving skills through the more challenging questions in each lesson and are encouraged to work systematically, reason logically and to					
	look for patterns. Students will be encouraged to spend time reflecting upon teacher feedback following home learning, practice papers or mocks.					
Key Vocabulary	Modulus, complex	Series, integers, cubic,	Matrix, singular, non-	Induction, Cartesian,	Distribution, binomial,	Momentum, impulse, work,
	number, imaginary	quartic, roots, polynomial,	singular, inverse, minor of	basis, assumption, scalar,	continuous and discrete	component, kinetic energy,
	number, complex		a matrix, transpose,	vector, skew	data	potential energy, power
	conjugate, Argand		cofactor, consistent,			
	diagrams, argument		image, plane			
ASPIRE Habits	Persevere	Make links	Collaborate	Plan	Question	Practise
Reading	17 Equations That Changed the World		Is Maths Real?		The Art of Statistics	
Opportunities	lan Stewart		Eugenia Cheng		David Spiegelhalter	

Note: Topic order may vary