

## Roundwood Park School Curriculum Map – Maths (YR13 Single 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 13	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Unit of Work	Pure	Pure	Pure	Applied	Applied	
	Algebraic methods,	Trigonometric functions,	Numerical methods,	Regression, correlation	Projectiles, applications of	
Key Knowledge	functions and graphs,	trigonometry and	integration, vectors	and hypothesis testing,	forces, further kinematics	
or	sequences and series,	modelling, parametric		conditional probability,		
Enquiry	binomial expansion,	equations, differentiation		the normal distribution,		
Question	radians			moments, forces and		
				friction		
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	Partial fractions,	Sine, cosine, tangent,	Iteration, converge,	Product moment	Projectile, particle,	
	contradiction, mapping,	secant, cosecant,	diverge, root, boundary	correlation coefficient,	displacement, velocity,	
	domain, range, function,	cotangent, inverse,	condition, differential	intersection, union,	distance, speed, friction,	
	inverse, modulus, one-to-	parametric, Cartesian,	equation, trapezium,	complement, continuity	static, component	
	one function, many-to-	derivative, concave,	component, modulus,	correction, sample,		
	one function, geometric,	convex, point of inflection	plane	critical region, standard		
	periodic, common ratio,			deviation, moment,		
	factorial, radian, segment,			uniform, rigid, coefficient		
	sector			of friction		
ASPIRE Habits	Think Logically	Communicate	Organise	Plan	Practise	
Reading	Thinking Better		Can Fish Count?		How Long is a Piece of String?	
Opportunities	Marcus du Sautoy		Brian Butterworth		Rob Eastaway	

Note: Topic order may vary