

Roundwood Park School Curriculum Map – Maths (YR9)

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 Group 9	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Unit of Work	Standard Form Algebraic Sequences Linear Inequalities	Rearranging Formula Y=mx+c Indices	Angles Construction/Loci Rounding Fractions	Simultaneous Equations Ratio/Proportion Quadratics Percentages	Units and Graphing Probability Segments and Sectors	Enlargement/Similarity Charts and Averages Trigonometry
	Standard form	Rearrange nonlinear	Review Angles work from	Find approximate	Compound units – density	Enlargement including
Key Knowledge	Calculations, Applications	formula, Represent	year 8, Understand the	solutions to simultaneous	pressure speed,	negative and fractional
or	of standard form,	equations in the form	meaning of locus, Solve	equations using graphs,	conversions between	enlargements, Multiple
Enquiry	Quadratic sequences first	y=mx+c, Read gradient	loci problems including	Solve simultaneous	compound units, Real-life	transformations and
Question	and second difference,	and intercept from a	perpendicular bisector	equations by elimination,	graphs, Frequency trees,	invariance, Similarity,
	Fibonacci Sequences, Use	graph, Sketch a graph	and angle bisector,	Recognise direct and	Two way tables, Venn	Conversions between
	four inequality symbols,	given gradient and	Rounding errors and error	inverse proportion,	diagrams, Tree diagrams	square and cube units,
	Solve linear inequalities,	intercept, Identify parallel	intervals, Truncating vs	Proportion graphs,	for independent events,	Review of charts and
	Use number lines to find	lines, Interpret the	rounding, Approximations	Equivalency symbol,	Theoretical and Relative	averages from year 8, Unit
	the set of values	gradient of a straight line	to calculations,	Difference of two	frequency, Know the	circle, Trigonometric ratios,
		as a rate of change,	Percentage error,	squares, Factorise	vocabulary of circles, Arc	Use trigonometry to find
		Negative and fractional	Algebraic fractions	quadratics where a>1,	length, Area of a sector	lengths of side and angles
		indices, Change of base		Review percentages.		
Concepts	Students will be developing critical thinking skills as we nurture a classroom culture in which mathematical discussions 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 end of unit tests home learning or end of term assessments.					
	Where multiple solutions are possible discussion will be encouraged to discuss the benefits and drawbacks of each solution.					
Key Vocabulary	Standard form, Significant	Indices, Formula, Change	Angles, Alternate,	Equation, Simultaneous,	Compound units, Velocity,	Similar, Congruent, Scale
	figure, Power, Indices,	of subject, Sketch Plot,	Corresponding, Co-	Variable, Manipulate,	Density, Pressure, Speed,	factor, Conversion,
	Term, Term to Term,	Gradient, Y-intercept,	interior, Interior, Exterior,	Eliminate, Solve, Direct	Conversion, Probability,	Transformation, Invariance,
	Position to Term, nth	Coefficients, Roots	Polygon, Construct, Loci,	proportion, Inverse	Theoretical, Experimental,	Categorical, Discrete,
	term, Linear, Quadratic,		Locus, Arc, Inequality,	proportion, Multiplier,	Event, Outcome, Mutually	Continuous, Frequency,
	Fibonacci, Inequality,		Truncate, Round,	Product, Variable, Term,	exclusive, Sample space,	Average, Spread, Mean,
	Solve, Solution set,		Maximum, Minimum,	Coefficient, Factorise,	Circle, Pi, Radius	Median, Mode, Range,
	Integer		Decimal place, Significant	Percentage, Percentage	Diameter, Chord,	Statistics, Sine, Cosine,
			figures, Mixed number,	change, Interest	Circumference, Tangent,	Tangent, Opposite,
			Improper fraction,		Sector, Arc, Segment	Adjacent, Hypotenuse,
			Terminating Recurring			Ratio, Angle
ASPIRE Habits	Persevere	Practise	Making links	Focus	Collaborate	Think logically
Reading	The maths of life and death		Humble Pie		The Simpsons and their mathematical secrets	
Opportunities	Kit Yates		Matt Parker		Simon Singh	