

Roundwood Park School Curriculum Map – Maths (YR8)

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 8	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Unit of Work	Place Value/Standard Form Linear Equations Fractions	Laws of Indices Rearranging Formula Angles	Constructions/Congruence Percentages Probability	Charts/Averages Quadratics Ratio and Scale	Circles Volume	Transformations and Enlargements Pythagoras Theorem
	Write and read large and	Addition and	Perpendicular bisector of a	Discrete/Continuous data,	Circle parts and	Enlargements with
Key Knowledge	small numbers in standard	subtraction rule with	line and from a point,	Grouped/ungrouped data,	properties,	positive integer,
or	form, Adding and	positive indices, power	Angle Bisector, Construct	Mean, Median, Mode,	Circumference, Area of a	fractional, and negative
Enquiry	Subtracting standard form,	of zero, Multiplication	2D shapes, Congruent	Range, Correlation,	circle, Parts of circles	scale factor, Find the
Question	Solve linear equations	rule for indices, Roots	Triangles, Simple proof,	Compare data, Expand two	including semi-circles and	centre of an enlargement,
	with unknowns on both	as inverses of powers,	Multipliers for percentage	brackets, Factorise a	quarter-circles, Volume	Find the scale factor of an
	sides, Solving equations	Change the subject of a	increase and decrease,	quadratic, Simplify	of prisms and cylinders,	enlargement, Identify the
	involving single brackets,	formula, Interior and	Percentage change	expressions, Comparing	Surface area of prisms	hypotenuse in a right
	Factorise into a single	exterior angles of a	problems, Original value	quantities, Units of	and cylinders	angle triangle, Use
	bracket, Terminating and	polygon, Angles	problems, Simple interest,	measure, Compound units,		Pythagoras in 2D, Use
	recurring fractions,	between parallel lines,	Theoretical/Experimental	Proportion		Pythagorean triples
	Multiply and divide	Bearings, Scale	Probability, Mutually	Speed/Distance/Time		
	fractions.	diagrams	Exclusive, Sample Space			
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	Power, Indices,	Angle, Bisect,	Data, Categorical, Discrete,	Circle, Centre, Radius,	Quadrants, Reflection,
	figure, Power, Indices,	Coefficients, Roots,	Perpendicular, Congruent,	Continuous, Frequency,	Diameter, Chord,	Rotation, Translate,
	Product, Variable, Term,	Formula, Formulae,	Conjectures, Proof,	Average, Spread, Mean,	Circumference,	Tesselate, Enlarge, Scale
	Coefficient, Factorise,	Subject, Angle,	Isosceles, Construct,	Median, Mode, Range,	Perimeter, Area, Pi,	Factor, Centre of
	Unknown, Equation,	Degrees, Acute,	Percent, Percentage	Statistic, Correlation, Linear,	Prism, Cross-Section,	Enlargement, Pythagoras,
	Bracket, Solve, Solution,	Obtuse, Reflex,	change, Original amount,	Quadratic, Expand,	Cylinder, Volume, Surface	Theorem, Square, Square
	Fraction, Mixed Number,	Vertically opposite,	Multiplier, Interest,	Factorise, Term, Variable,	Area	root, Hypotenuse,
	Improper Fraction,	Parallel, Alternate,	Probability, Theoretical,	Coefficient, Ratio		Pythagorean Triple,
	Percentage Decimal,	Corresponding,	Event, Outcome,	Proportion, Multiplier,		
	Terminating, Recuring,	Interior, Exterior,	Impossible, Certain,	Unitary, Speed		
	Simplify	Regular, Polygon				
ASPIRE Habits	Focus	Making Links	Communicate	Collaborate	Question	Take risks
Reading	The Curious Incident of the dog in the night-time		The Number Devil: A Mathematical Adventure		Alex's Adventures in Numberland	
Opportunities	Mark Haddon		Hans Magnus Enzensberger		Alex Bellos	