



ST. MATTHEW'S
ROMAN CATHOLIC HIGH SCHOOL
Voluntary Academy

KS4 Maths Curriculum Plan

Mrs McKay

j.mckay@smrchs.com

Year 10 Curriculum		GCSE Mathematics (Foundation)
Autumn Term	Spring Term	Summer Term
Autumn 1	Spring 1	Summer 1
Integers and place value Decimals Integers, powers and roots Factors, multiples and primes Algebra review Expressions and substitution	Percentages Equations and Inequalities Sequences Properties of shapes, parallel lines and angle facts	Perimeter, area and volume Real life graphs Straight line graphs
Autumn 2	Spring 2	Summer 2
Tables, charts and graphs Pie charts Scatter graphs Fractions, decimals and percentages	Interior and exterior angles of polygons Statistics, sampling and the averages	Transformations Ratio Proportion

Year 10 Curriculum		GCSE Mathematics (Higher)
Autumn Term	Spring Term	Summer Term
Autumn 1	Spring 1	Summer 1
Calculations, checking and rounding Indices, roots, reciprocals and hierarchy of operations Factors, multiples and primes Standard form and surds	Ratio and proportion Polygons, angles and parallel lines Pythagoras theorem and trigonometry Graphs, the basics and real life	3D forms and volume, cylinders, cones and spheres Accuracy and bounds Transformations

Algebra, setting up, rearranging and solving equations		
Autumn 2	Spring 2	Summer 2
Sequences Averages and range Representing and Interpreting data and scatter graphs Fractions and percentages	Linear graphs and coordinate geometry Quadratic, cubic and other graphs Perimeter, area and circles	Constructions, loci and bearings Solving quadratic and simultaneous equations Inequalities

Year 11 Curriculum		GCSE Mathematics (Foundation)
Autumn Term	Spring Term	Summer Term
Autumn 1	Spring 1	Summer 1
Place value and decimals Indices, primes and multiples Factors, multiples and Primes Fractions decimals and percentages Algebra review Representing data (1)	Pie charts Simplifying indices Simple and compound Interest Volume and surface area Standard Form Compound measures	Exam preparation and revision
Autumn 2	Spring 2	
Drawing graphs Conversions and units Exchange rates Representing data (2) Ratio (1)	Exam preparation and revision	

Year 11 Curriculum		GCSE Mathematics (Higher)
Autumn Term	Spring Term	Summer Term
Autumn 1	Spring 1	Summer 1
Calculating with Surds Investigating properties of shapes Solving equations and inequalities Transformations Cubic, exponential, reciprocal and circle graphs Trigonometric graphs Direct and inverse proportion Collecting data Cumulative frequency, box plots, and histograms.	Similarity and congruence Surds Pre-calculus Gradient of curves. Area under graph, kinematics Further Inequalities Algebraic proof Vectors Further rearranging formula Completing the square	Exam preparation and revision
Autumn 2	Spring 2	
Quadratic review Simultaneous quadratics. Quadratic sequences. Algebraic fractions. Bounds Circle theorems Constructions, loci and bearings	Exam preparation and revision	

[Find out more about our Maths course](#)