

Curriculum Intent

At My Online Schooling, the ultimate aim of the Mathematics curriculum is to build numerical confidence and problem solving skills in each of the pupils. This is to prepare the pupils for successfully sitting the International General Certificate of Secondary Education but also beyond in whatever career they choose. The curriculum in Years 7, 8 and 9 is designed to provide a bridge between the primary curriculum and the iGCSE course in Years 10 and 11. Pupils are then in a position to progress to college or to remain and study the A Level with My Online Schooling.

Implementation

We provide purposeful practice with carefully planned questions that allow progression in fluency, reasoning and problem solving. This helps pupils to think explicitly about their own learning with self-reflection opportunities. Our curriculum builds confidence and overcomes maths anxiety with frequent low stakes assessments and topic reviews.

Key Stage 3

Year 7	Multiply, divide, factors, multiples, sequences, perimeter, area, averages, BIDMAS, algebra, angles, decimals, graphs, percentages, fractions, volume, surface area
Year 8	Probability, ratio, symmetry, algebra, pie charts, transformations, powers, roots, standard form, percentages, linear and quadratic graphs, scatter graphs, algebra, indices, fractions, area and circumference of a circle, probability
Year 9	Algebra, rearranging formula, direct and inverse proportion, graphs, frequency tables and diagrams, averages, percentages, polygons, algebra, volume, surface area, compound measures, quadratic graphs, pythagoras, indices, trigonometry

Key Stage 4

Year 10	Fractions, decimals, percentages, indices, limits of accuracy, special numbers, standard form, venn diagrams, algebraic manipulation, expressions, formulas, sequences, graphs, quadratics, inequalities, functions.
Year 11	Compound measures, geometry, constructions, bearings, perimeter, area, volume, pythagoras, trigonometry, transformations, circles, similarity, graphical representation of data, statistical measures, probability

Key Stage 5

Year 12	Quadratics, functions, coordinate geometry, circular measures, trigonometry, differentiation, forces and equilibrium, kinematics of motion, momentum, Newton's laws, energy/work/power
Year 13	Algebra, trigonometry, differentiation, integration, logs, exponential functions, poisson distribution, continuous random variables, sampling, hypothesis testing

Impact

Key Stage 4

Exam board	Pearson Edexcel	
Structure	Short and long answer questions	
International GCSE Mathematics (4MA1)	<p>Paper 1</p> <ul style="list-style-type: none"> • 2 hours • 50% of qualification <p>Paper 2</p> <ul style="list-style-type: none"> • 2 hours • 50% of qualification 	<ol style="list-style-type: none"> 1. Number 2. Algebra 3. Geometry 4. Statistics

Key Stage 5

Exam board	Cambridge International	
Structure	Short and long answer questions	
International A Level Mathematics (9709)	<p>Paper 1</p> <ul style="list-style-type: none"> • 1 hour 50 minutes • 60% of the AS Level • 30% of the A Level <p>Paper 4</p> <ul style="list-style-type: none"> • 1 hour 15 minutes • 40% of the AS Level • 20% of the A Level <p>Paper 3</p> <ul style="list-style-type: none"> • 1 hour 50 minutes • 30% of the A Level <p>Paper 5</p> <ul style="list-style-type: none"> • 1 hour 15 minutes • 20% of the A Level 	<ol style="list-style-type: none"> 1. Pure Mathematics 2. Mechanics 3. Probability & Statistics

Department

Teacher	Role
Tom Carter	Head of Maths, Teacher of KS3 Maths, KS4 Maths
Anna Kirwan	Teacher of KS3 Maths, KS4 Maths
Asmita Parmar	Teacher of KS3 Maths, KS4 Maths
David Neary	Teacher of KS3 Maths, KS4 Maths
Deniz Oksuz	Teacher of KS3 Maths, KS4 Maths
Tasnia Choudhury	Teacher of KS3 Maths, KS4 Maths, KS5 Maths