MECE KS3 HIGHER SCHEMES OF WORK OVERVIEW

MAIDEN ERLEGH CHILTERN EDGE

Year 7		
Term	Unit	Title
Autumn 1	1	Calculations, cheking and Rounding, Indices, roots, reciprocals and Hierarchy of Operations, Factors, multiples and primes
	2	Standard form and Surds,
Autumn 2	2	Algebra, the basics, Setting up, rearranging and solving equations, sequences
	3a/b	Averages and the range, Representing and Interpreting data
ASSESSMENT WEEK AND FEEDBACK PPE 1		
Spring 1	3b/c	Representing and Interpeting data, Scatter Graphs
	4a/b	Fractions and Percentages
Spring 2	4b/c	Percentages, Ratio and Proprotion
	5	Polygons, Angles and Parallel lines
ASSESSMENT WEEK AND FEEDBACK PPE 2		
Summer 1	5	Pythagoras' Theorem and Trigonometry
	6	Graphs: The basics and real life graphs, Linear Graphs and Coordinate geometry
Summer 2	6	Linear graphs and Coordinate Geometry, Quadratic, cubic and Other graphs
	7	Perimetry Area and Circles
ASSESSMENT WEEK AND FEEDBACK PPE 3		

Year 8		
Term	Unit	Title
Autumn 1	7	Perimeter, Area and Circles, 3-D forms, volume, Cylinders, cones and Spheres, Accuracy and Bounds
	8	Transformations, constructions, Loci and
Autumn 2	8	Constructions, Loci and Bearings
	9	Solving Quadratic and Simultaneous equaitons, Inequalities
	10	Probability
ASSESSMENT WEEK AND FEEDBACK 1		
Spring 1	11	Multiplicative Reasoning
	12	Similarity and Congruence 2-D and 3-D
	13	Graphs of Trigonometric functions
Spring 2	13	Further Trigonometry
	14	Collecting Data, Cumulative Frequency Boxplots and Histograms
	15	Quadratics, explaning more than 2 brackets, sketching graphs, Graphs of circles, cubes and quadratics
ASSESSMENT WEEK AND FEEDBACK PPE 2		
Summer 1	15	Quadratics, explaning more than 2 brackets, sketching graphs, Graphs of circles, cubes and quadratics
	16	Circle Theorems and Circle Geometry
	17	Change the subject of a formula
Summer 2	18	Vectors and Geometric Proofs
	19	Direct and inverse proportions
ASSESSMENT WEEK AND FEEDBACK PPE 3		

MATHS CURRICULUM INTENT

'Mathematics is a creative and inter-connected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems.'(National Curriculum, 2013).

The aim of our mathematics curriculum at MECE is to help all students develop the skills to solve problems not only to pass GCSE examinations but also to equip them for the next stage of their learning and a life that will be enriched through a firm understanding of mathematics. We support them in becoming fluent in the fundamentals of mathematics so that they are able to recall key knowledge and use algorithms and procedures flexibly to provide efficient solutions to increasingly complex problems. We expect students to be able to talk about the mathematics they are learning and reason about mathematical concepts. In order to achieve these ambitious aims, students work on a range of rich tasks from investigations to practical explorations as well as practice exercises and exam questions. Assessments are used to inform planning and ensure that no student falls behind.

MAIDEN ERLEGH
CHILTERN EDGE

MECE KS4 3 YEAR HIGHER SCHEMES OF WORK OVERVIEW

Year 9

Term	Unit	Title	Hours
Autumn 1	1	Powers, Decimals, HCF and LCM, Positive and negative, roots, rounding, reciprocals, standard form, indices and surds	
Autumn 2	2	Expressions, substituting into simple formulae, expanding and factorising equations, sequences and simple proof	
	5b Part 1	Pythagoras	
ASSESSMENT WEEK AND FEEDBACK PPE 1			
Spring 1	3a	Averages and Range	
	3b	Representing and interpreting data	
Spring 2	3c	Sc atter graphs	
	4a/b	Fractions, Percentages, ratio and proportion	
		3d Pythagoras	
ASSESSMENT WEEK AND FEEDBACK PPE 2			
Summer 1	4c	Ratio and Proportion	
Summer 2	5	Angles, Polygons, Parallel Lines; Right-angled Triangles: Pythagoras and Trigonometry	
	6a	Real Life Graphs	
ASSESSMENT WEEK AND FEEDBACK PPE 3			

Year 10

Term	Unit	Title	Hours
Autumn 1	6b/c	Linear Graphs and Coordinate Geometry/Quadratic cubic and other graphs	
	7a	Perimeter, area and circles	
Autumn 2	7b/c	3D Forms and volume, cylinders, cones and Spheres/accuracy and bounds	
	unit 8	Transformation; constructions: triangles, nets, plan and elevations, loci, scale drawings and bearings	
ASSESSMENT WEEK AND FEEDBACK 1			
Spring 1	8	Transformation; constructions: triangles, nets, plan and elevations, loci, scale drawings and bearings	
	9a	Solving Quadratics and Simultaneous Equations	
	9b	Inequalities	
Spring 2	9b	9b Inequalities	
	16a	Circle Theorems	
	16b	Circle Geometry	
ASSESSMENT WEEK AND FEEDBACK PPE 2			
Summer 1	16b	Circle Geometry	
	10	Probability	
	11	Multiplicative Reasoning	
	12	Similarity and Congruence	
Summer 2	12	Similarity and Congruence	
	13	Graphs of Trigonometric functions / Further Trigonometry	
ASSESSMENT WEEK AND FEEDBACK PPE 3			

Year 11

Term 1	Unit	Title	Hours
Autumn 1	14a	Collecting data	
	14b	Cumalative frequency , boxplots and histograms	
	15	Further quadratics	
	17	Changing the subject of the formulae	
Autumn 2	17	Changing the subject of the formulae	
	18	Vectors and Geometric Proof	
Spring 1	19	Reciprocal and exponential graphs/direct and indrect proportion	
ASSESSMENT WEEK AND FEEDBACK PPE 1			
Spring 1	Revision		
Spring 2	Revision		
ASSESSMENT WEEK AND FEEDBACK PPE 2			