

MATHS CURRICULUM 2020-2021

Year	HT1		HT2		HT3		HT4		HT5		HT6	
Year 7	<ul style="list-style-type: none"> Sequences Understand and use algebraic notation Equality and equivalence 	Some students will have missed the algebra block in year 6 therefore more time is allocated to this module.	<ul style="list-style-type: none"> Place value and ordering integers and decimals Fraction, decimal and percentage equivalence 	This module is covered in primary, Topics will be revisited, strengthened and extended to KS3	<ul style="list-style-type: none"> Solving problems with addition and subtraction Solving problems with multiplication and division Fractions and percentages of amounts 	This module is covered in primary, Topics will be revisited, strengthened and extended to KS3	<ul style="list-style-type: none"> Four operations with directed number Addition and subtraction of fractions 	This module is covered in primary, Topics will be revisited, strengthened and extended to KS3	<ul style="list-style-type: none"> Constructing, measuring and using geometric notation Developing geometric reasoning Developing number sense 	Some students will have missed the algebra block in year 6 therefore more time is allocated to this module to accommodate this	<ul style="list-style-type: none"> Sets and probability Prime numbers and proof 	N10 N11 S1 S2
Year 7 Assessments	Pre- Assessment		Post Assessment		Pre- Assessment		Post Assessment		Pre- Assessment		End of Year Assessment	
Year 8	<ul style="list-style-type: none"> Sequences Understand and use algebraic notation Equality and equivalence 	This is a catch up module due to Covid- 19 school closures	<ul style="list-style-type: none"> Operations and equations with directed numbers Adding and subtracting fractions 		<ul style="list-style-type: none"> Adding and subtracting fractions continued Multiplying and dividing fractions Working in the Cartesian Plane 	Multiplying and dividing fractions is a catch up topic	<ul style="list-style-type: none"> Sets and probability Collecting and representing data Brackets, equations and inequalities 	Topics in bold are catch up topics	<ul style="list-style-type: none"> Brackets, equations and inequalities Sequences 2 Indices Fractions and percentages of amounts 		<ul style="list-style-type: none"> Standard form Angles in parallel lines and polygons Area of trapezia and circles 	
Year 8 Assessments	Pre- Assessment		Post Assessment		Pre- Assessment		Post Assessment		Pre- Assessment		End of Year Assessment	
Year 9	<ul style="list-style-type: none"> Ratio and Scale Working in the Cartesian Plane Straight line graphs 	Topics in bold are catch up topics	<ul style="list-style-type: none"> Straight line graphs continued Brackets, equations and inequalities Forming and solving equations 	Topics in bold are catch up topics	<ul style="list-style-type: none"> Sets and probability Representing data Three dimensional shapes Indices 	Topics in bold are catch up topics	<ul style="list-style-type: none"> Indices Number: Directed, decimals, HCF, LCM, surds and fractions Constructions and Congruence 	Topics in bold are catch up topics	<ul style="list-style-type: none"> Using Percentages Maths and Money: Simple interest, compound interest, Wages, taxes, VAT, bills, bank statements and exchange rates Solving ratio and proportion problems 		<ul style="list-style-type: none"> Deductions with angles: Pythagoras' theorem Revision and consolidation 	
Year 9 Assessments	Pre- Assessment		Post Assessment		Pre- Assessment		Post Assessment		Pre- Assessment		End of Year Assessment	
Year 10 Higher	<u>Fractions, decimals and Percentages</u> <ul style="list-style-type: none"> Fractions, decimals and percentages <u>Angles and Trigonometry</u> <ul style="list-style-type: none"> Polygons, angles and parallel lines 		<u>Graphs</u> <ul style="list-style-type: none"> Graphs: the basics and real-life graphs Linear graphs and coordinate geometry Quadratic, cubic and other graphs 		<u>Area and Volume</u> <ul style="list-style-type: none"> 3D forms Volume and surface area including cylinders, cones and spheres <u>Transformations and Constructions</u>		<u>Transformations and Constructions</u> <ul style="list-style-type: none"> Loci <u>Equations and Inequalities</u> <ul style="list-style-type: none"> Solving quadratic and simultaneous equations 		<u>Probability</u> <ul style="list-style-type: none"> Probability trees Conditional probability Venn diagrams Set Notation <u>Multiplicative Reasoning</u>		<ul style="list-style-type: none"> Revision and consolidation Mock Exams Work Experience 	

	Pythagoras' Theorem and trigonometry <u>Graphs</u> <ul style="list-style-type: none">Graphs: the basics		<u>Area and Volume</u> <ul style="list-style-type: none">Perimeter and area of compound shapes including circles and sectorsUnits of accuracy		<ul style="list-style-type: none">Reflection RotationTranslationEnlargementCombined TransformationsScale drawingsBearingConstructionsLoci		<ul style="list-style-type: none">Inequalities		<ul style="list-style-type: none">Compound interest and depreciationGrowth and decayCompound measures			
Year 10 Foundation	<u>Angles</u> <ul style="list-style-type: none">Properties of shapes, parallel lines and angle factsInterior and exterior angles of polygons <u>Averages and Ranges</u> <ul style="list-style-type: none">StatisticsAverages		<u>Averages and Ranges</u> <ul style="list-style-type: none">Statistics sampling <u>Perimeter, Area and Volume 1</u> <ul style="list-style-type: none">Perimeter and area3D forms and volume <u>Graphs</u> <ul style="list-style-type: none">Straight-line graphs		<u>Graphs</u> <ul style="list-style-type: none">Real-life graphsStraight-line graphs <u>Transformations</u> <ul style="list-style-type: none">Transformations I: translations, rotations and reflections Transformations II: enlargements and combinations <u>Ratio and Proportion</u> <ul style="list-style-type: none">Ratio		<u>Ratio and Proportion</u> <ul style="list-style-type: none">RatioProportion <u>Trigonometry</u> <ul style="list-style-type: none">Right-angled triangles:Pythagoras and trigonometry		<u>Trigonometry</u> <ul style="list-style-type: none">Pythagoras and Trigonometry <u>Probability</u> <ul style="list-style-type: none">Calculating probabilityExperimental probabilityVenn diagrams		<ul style="list-style-type: none">Revision and consolidationMock ExamsWork Experience	
Year 10 Assessments	End of topic test tests		Exam Paper		End of topic tests		Exam Paper		End of topic tests		End of Year Assessment	
Year 11 Higher	<u>More Trigonometry</u> <ul style="list-style-type: none">Area RuleSine RuleCosine RuleGraphs of trigonometric functions <u>Further Statistics</u> <ul style="list-style-type: none">SamplingCumulative FrequencyBox Plots	The topics in bold are catch up from year 10	<u>Further Statistics</u> <ul style="list-style-type: none">HistogramsComparing and describing populations <u>Equations and Graphs</u> <ul style="list-style-type: none">Solving simultaneous graphically	The topics in bold are catch up from year 10	<u>Equations and Graphs</u> <ul style="list-style-type: none">Graphs of quadratic functionsGraphs of cubic function <u>Circle Theorems</u> <ul style="list-style-type: none">Radii and ChordsTangentsAngles in CirclesAngles in Circles Applying Circle Theorems <u>More Algebra</u> <ul style="list-style-type: none">Rearranging formulae	The topics in bold are catch up from year 10	<u>More Algebra</u> <ul style="list-style-type: none">SurdsSolving algebraic fraction equationsFunctionsProof <u>Proportion and Graphs</u> <ul style="list-style-type: none">Direct ProportionInverse ProportionExponential functionsNon-linear graphs		Gap Analysis topic teaching based on identified strength and weaknesses		Exams	

					<ul style="list-style-type: none">Algebraic FractionsSimplifying algebraic fractions		<ul style="list-style-type: none">Translating graphs of functions Reflecting and stretching graphs of functions					
Year 11 Foundati on	<u>Quadratic Equations and Graphs</u> <ul style="list-style-type: none">Quadratic equations: expanding and factorising Quadratic equations and graphs <u>Perimeter Area and Volume 2</u> <ul style="list-style-type: none">Circumference and area of a CircleSemi circles and SectorsComposite 2d ShapesCylindersPyramids and ConesComposite Solids	The topics in bold are catch up from year 10	<u>Fractions, Indices and Standard Form</u> <ul style="list-style-type: none">Multiplying FractionsDividing FractionsLaws of IndicesWriting Large Numbers in Standard FormWriting Small Numbers in Standard FormCalculating with Standard Form		<u>Congruence and Similarity</u> <ul style="list-style-type: none">Similarity and EnlargementCongruency <u>More Algebra</u> <ul style="list-style-type: none">Graphs of cubic, and reciprocal functionsNon-linear graphsSolving simultaneous graphicallyRearranging formulaeProof		Gap Analysis topic teaching based on identified strength and weaknesses		Gap Analysis topic teaching based on identified strength and weaknesses		Exams	
Year 11 Assessm ents	Exam Paper		Mock Exams		Exam Paper		Exam Paper		GCSE Exams		GCSE Exams	