Year 11 Curriculum Overview [2021-22]
Subject – Maths- Foundation (x5, y2, y3, y4)

	Knowledge & Understanding			Literacy Skills	Employability Skills	Assessment Opportunities
	Composites	**Components** [includes understanding of KEY concepts & subject specific vocab]	**Formal Retrieval** [if any]	**Opportunities for developing literacy skills**	**[if any]**	
HT1	Number Operations and Integers	- Four Rules - Definitions and terms - Prime Numbers - HCF and LCM - Priority of Operations - Inverse operations - Linear equations in one unknown	- Maths box skills check 10 questions once per week - Mathsbox skills check 20 questions - HWK- once a week - Weekly retrieval chart current and long-term skills	- Key words – learned and understood - Encourage use of subject language - Questioning - Pupil explanations and reasoning - Engage with worded exam questions	- Jobs that require basic number skills - Hairdressers - Retail - Education	Sam testing
	Fractions, Decimals and Percentages	- Equivalent fractions - Percentage conversions Ordinality - Decimals and fractions - Addition, subtraction and multiplication of decimals - Division of decimals - Calculations with fractions - Calculations with fractions - Fractions of a quantity - Percentage change - Percentage change				Sam testing
	Ratio, Proportion and Rates of change	- Equivalent ratios, ratios and fractions - Division in a given ratio - Direct proportion - Inverse proportion				Sam testing

	Indices and Surds	- Laws of indices Calculation and estimation of powers and roots - Standard form - Calculations with numbers in Standard form - Exact calculations				
HT2	Approximation And Estimation	- Rounding - Estimation - Estimation - Upper and lower bounds	- Maths box skills check - 10 questions once per week - Mathsbox skills check 20 questions - HWK- once a week - Weekly retrieval chart current and long-term skills	- Key words – learned and understood - Encourage use of subject language - Questioning - Pupil explanations and reasoning - Engage with worded exam questions	- Medical - Computing	Sam testing
	Statistics	- Populations and samples - Summary statistics - Summary statistics - Categorical and numerical data - Categorical and numerical data - Misrepresenting data Outliers - Bivariate data				
	Probability	- The probability scale - Relative frequency - Relative frequency and probability - Relative frequency and probability - Equally likely outcomes and probability - Sample spaces - Enumeration - Venn diagrams and sets - Tree diagrams - The addition law of probability				
	Basic Geometry	- 2D shapes - Polyhedra and other solids - Properties of quadrilaterals - 3-dimensional solids - Circle nomenclature				

		• Geometrical instruments • Plans and elevations • Perpendicular bisector • Angle bisector • Angles at a point • Angles in polygons • Properties of a triangle • Symmetry				
HT3	Algebra	• Algebraic terminology and proofs • Algebraic terminology and proofs • Multiplying out brackets • Factorising • Formulate algebraic expressions • Substitute numerical values into formulae and expressions • Recall and use standard formulae • Use kinematics formulae • Change the subject of a formula			• Builders • Architect • Working in Construction	Sam testing Half term test
	Graphs, Equations and Functions	• Linear equations in one unknown • Linear equations in one unknown • Quadratic equations • Simultaneous equations • Approximate solutions using a graph • Inequalities in one variable • Functions • Generate terms of a sequence • Generate terms of a sequence • Special sequences • Special sequences • Graphs of equations and functions • Polynomial functions • Straight line graphs, parallel and perpendicular lines • Graphs of real-world contexts Gradients	• Maths box skills check • 10 questions once per week • Mathsbox skills check 20 questions • HWK- once a week • Weekly retrieval chart current and long-term skills	• Key words – learned and understood • Encourage use of subject language • Questioning • Pupil explanations and reasoning • Engage with worded exam questions	• Data analyst • Statistician	Sam testing

		Mensuration	• Units of measurement • Units of measurement • Compound units • Maps and scale drawings • Perimeter of rectilinear shapes. Area of a triangle • Area of a parallelogram Area of a Trapezium • Circumference of a circle. Area of a circle • Perimeter of composite shapes Area of composite shapes • Polyhedra • Cones and spheres Pyramids • Pythagoras' theorem • Trigonometry in right-angled triangles Exact trigonometric ratios			• Builders • Architect • Construction	Sam testing
		Congruence and Similarity	• Reflection • Rotation • Translation • Enlargement • Congruent triangles • "Vector arithmetic Column vectors' • Similar triangles • Similar shapes				
	HT4	Revision		• Maths box skills check • 10 questions once per week • Mathsbox skills check 20 questions • HWK- once a week • Weekly retrieval chart current and long-term skills	• Key words – learned and understood • Encourage use of subject language • Questioning • Pupil explanations and reasoning • Engage with worded exam questions	• Chef • Retail • Builders • Architect	Sam testing End of term test

HT5	Revision			• Flashback 4 – once per week • Mathsbox skills check 10 questions – once per week • Mathsbox skills check 20 questions HWK – once a week	• Key words – learned and understood • Encourage use of subject language • Questioning • Pupil explanations and reasoning • Engage with worded exam questions	• Statistician • Gaming	Sam testing
HT6	Revision			• Maths box skills check • 10 questions once per week • Mathsbox skills check 20 questions • HWK- once a week • Weekly retrieval chart current and long-term skills	• Key words – learned and understood • Encourage use of subject language • Questioning • Pupil explanations and reasoning • Engage with worded exam questions	• Scientists	Sam testing