MUSIC STUFF EDUCATION

Music Stuff SOW (Long-Term)

Subject	Maths	Year	10
Term	**Autumn 1**	**Spring 1**	**Summer 1**
Unit of learning	**Number and Algebra**	**Number and Ratio**	**Number, Algebra and Geometry**
Intent	The 4 operations Order of operations Directed numbers Calculations with fractions Simplifying, expanding, and factorising Substitution Forming and solving equations	Factors, multiples and primes Prime factor decomposition Estimating rounding and bounds Fractions of amounts Equivalent fractions, decimals and Ratio Percentages	Sequences Functions Straight line graphs Powers, roots and laws of indices Place value and standard form Quadratic and other graphs Pythagoras
Term	**Autumn 2**	**Spring 2**	**Summer 2**
Unit of learning	**Geometry**	**Geometry and Probability**	**Statistics and Geometry**
Intent	Area and perimeter Circles Surface area Constructions Volume Using a calculator Revision of key ideas, skills and knowledge Assessment, feedback and review Co-ordinates	2D shape properties Angle properties Transformations Probability Relative Frequency Two-way tables, Venn diagrams and frequency trees. Revision of key ideas, skills and knowledge Assessment, feedback and review	Frequency tables Averages Presenting and interpreting data Conversions Scale diagrams and bearings
Rationale:	AO1 – Using and applying standard techniques, AO2 – Reasoning, interpretating and communication, AO3 – Solving problems in mathematical and other contexts. Consolidate and extend prior knowledge and skills from KS3. 4 operations/directed number leads onto substitution and solving equations and algebra is part of the number system. Area, perimeter surface area and volume can use skills from autumn 1 (4 operations, directed number, fractions, algebra) Fractions of amounts, percentages and ratio together to allow understanding of multiplicative reasons. Properties of 2D shapes links with angle properties and equivalent FDP and probability. Sequences links with linear graphs. Knowledge of powers and roots applied to Pythagoras. Averages links with presenting and interpreting data.		

Subject	Maths	Year	11
Term	**Autumn 1**	**Spring 1**	**Summer 1**
Unit of learning	**Number and Algebra**	**Number and Geometry**	**Geometry and revision**
Intent	The 4 operations/Directed numbers Number problems Calculations with mixed numbers Laws of indices Simplifying, expanding, and factorising Substitution Forming and solving equations Rearranging and changing subject of formulae Inequalities	Prime factor decomposition Estimating rounding and bounds Percentages, compound interest and decay Ratio and proportion 2D shape properties Angle properties Congruence and similarity Transformations Statistics and averages	Pythagoras Trigonometry Calculations with standard form Revision
Term	**Autumn 2**	**Spring 2**	**Summer 2**
Unit of learning	**Geometry**	**Statistics, Probability and Algebra**	
Intent	Area and perimeter, circles 3D shapes, plans and elevations Surface area Volume Real life graphs and compound measure Using a calculator Revision of key ideas, skills and knowledge Assessment, feedback and review Co-ordinates	Statistics and averages Fractions, decimals and percentages convert Probability and relative frequency. Venn diagram notation Probability tree diagrams Sequences Straight line graphs Quadratic and other graphs. Revision of key ideas, skills and knowledge. Assessment, feedback and review	
Rationale:	AO1 – Using and applying standard techniques, AO2 – Reasoning, interpretating and communication, AO3 – Solving problems in mathematical and other contexts. Topics build on key ideas from year 10. Inequalities build on skills and knowledge from algebra and solving equations. Congruence and similarity use multiplicative reasoning and properties of shapes and transformations build on prior knowledge. Straight line graphs build on prior knowledge from substitution and links with sequences.		