CURRICULUM MAP YEAR 7 MATHS

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
ALGEBRA 1 (Sequences & Functions) Generating simple sequences Describe term to term rules for simple sequences Function machines Functions in words, symbols, simple mappings. **NUMBER 1 (Calculations)** X and ¸ integers by 10 & 100 Multiply multiples of 10 Rounding & Approximations Order + and – positive & negative numbers + and – whole numbers **SSM 1 (Area & Perimeter)** 2D representations of 3D objects Area of a rectangle Area & perimeter of simple composite shapes. **NUMBER 2 (FDP)** Identify fractions of shapes Identify simple equivalent fractions Unit fractions of quantities Begin to add & subtract simple fractions Equivalence: Fractions, Decimals, Percentages Calculate simple percentages .	**HANDLING DATA 1 (Statistics & Probability)** Mean, median & mode (discrete data) Interpret diagrams and graphs Probability scale. Probabilities of equally likely outcomes Simple experimental probability . **ALGEBRA 2 (Expressions & Equations)** Symbols & letters Language of Algebra Simplifying Expressions Substitution into simple linear expressions . **SSM 2 (Angles)** Angles around a point, & on a straight line Vertically opposite angles Properties of triangles and quadrilaterals Coordinates in the first quadrant Acute & obtuse angles Measuring, drawing & estimating angles. **NUMBER & MEASURES 3a (Calculations)** Rounding to nearest 10, 100, 1000 Rounding decimals to whole number. Simple +, -, x, ¸ of whole & decimals Mental & oral strategies.	**HANDLING DATA 2 (Collecting & Interpreting Data)** Data collection, display & interpretation Solve word problems & investigate: handling data . **NUMBER & MEASURES 3b (Mental / Written Calculations)** Mental, written (x & ¸) & calculator methods Checking results Solving problems with various units of measures Converting metric units Reading and interpreting scales . **ALGEBRA 3 (Number types, Sequences, Functions & Graphs)** Multiples, factors, primes, divisibility Types of numbers, square root key Sequences: generate and describe; term to term; simple position to term; Functions: words then symbols Graphs of linear functions. **SSM 3a (Constructions)** Constructions: Measuring and drawing lines angles and triangles .	**SSM 3b (Geometrical Reasoning)** Triangles & quadrilaterals Solve geometrical problems. **NUMBER 4 (FDP)** Frac ≡Dec ≡Percent Calculate percentages, use to compare proportion Ratio Proportion . **ALGEBRA 4 (Expressions & Equations)** Use symbols BIDMAS Simplify, collect like terms, multiply a bracket Construct and solve linear equations . **SSM 4 (Transformations)** Reflection, Rotation, Translation Solve word problems & investigate shape & space in context: *Extend using 'what if …?',*	**NUMBER 5a** Multiples, Factors, common factors, primes, divisibility FDP problems – FDP equivalence & ordering. Make & justify estimates and approximations + & - of whole number and decimals to 2d.p. **HANDLING DATA 3a** Data collection, display & interpretation Construction of frequency tables, Graphs & charts Mean, Median & Mode (discrete data) Use of ICT to collect ad display data. **HANDLING DATA 3b (Probability)** Probability scale. Probabilities of equally likely outcomes Simple experimental probability Comparing experimental & theoretical probabilities. **ALGEBRA 5a** Construct and solve simple linear equations Substitute +ve integers into expressions & formulae Generate linear sequences.	**NUMBER 5b** Multiply up to a 4fig by 1fig number Brackets, use of calculator, interpreting the display Fractions of quantities in context Calculate simple percentages. **ALGEBRA 5b** Function Machines Expressing functions in words, symbols, mappings Plot simple linear graphs, including e.g.: y = 3. **SHAPE, SPACE & MEASURES 5** Angle problems at a point, straight line & in a triangle using Symmetry properties of triangles & quadrilaterals Construction: Acute & Obtuse angles.