

St Vincent's - Maths scheme of work

Yearly overview for KS3 and KS4 Maths course (3 lessons/wk)

Year	Sept-Dec (autumn) 70 days – 42 lessons	Jan- April (spring) 67 days – 40 lessons	May-July (summer) 53 days – 32 lessons
7 – S3 (Nat Curr)	<ul style="list-style-type: none"> • Bodmas • Ordering no's and place values • Add, subtract, multiply and divide • Decimals • Multiplying and dividing by 10s and with no calculator • Negative numbers, even and odd no's • Perimeter and area intro • Wordy questions • Units and telling the time 	<ul style="list-style-type: none"> • Square numbers • Cube no's • Prime no's • Multiples factors and prime factor • LCM and HCF • Fractions • Percentages • Rounding numbers • Accuracy and estimating 	<ul style="list-style-type: none"> • Powers • Square and cube roots • Algebra simplifying and multiplying • Formulas • Word formulas • Solving equations • Number patterns and sequences
8 – S4 (Nat Curr)	<ul style="list-style-type: none"> • X and Y coordinates • Straight line graphs • Plotting graphs • Travel graphs and reading them • Conversion graphs • Ratios and proportion • Percentage increase and decrease 	<ul style="list-style-type: none"> • Units and Conversion factors • Reading timetables • Maps and scale drawings • Speed • Symmetry • Quadrilaterals • Triangles and polygons 	<ul style="list-style-type: none"> • Congruence and similarity • Perimeter and area • Area formulas • Area of compound shapes • Circles • 3d shapes
9 – S5 (Nat Curr)	<ul style="list-style-type: none"> • Nets, surface area and volume • Lines and measuring/drawing angles • Angle rules • Parallel lines • Transformations and enlargements 	<ul style="list-style-type: none"> • Constructions • Probability • Outcomes • Venn diagrams • Line graphs, bar and pie 	<ul style="list-style-type: none"> • Frequency tables • Scatter graphs • Recap of years 7 and 8 and consolidation of KS3

	<ul style="list-style-type: none"> • Significant figures • Estimating in science • Mathematical symbols in science • Converting between units 	<p>charts</p> <ul style="list-style-type: none"> • Mean mode median range 	
<p>10 – S6</p> <p>(OCR GCSE - J560)</p>	<ul style="list-style-type: none"> • Four rules and whole number theory • Operations and inverse • Fractions and percentages • Powers and roots • Standard form • Estimation • Ratio • Direct and inverse proportion 	<ul style="list-style-type: none"> • Growth and decay • Algebraic expressions • Formulae • Algebra equations • Inequalities • Rearranging • Functions 	<ul style="list-style-type: none"> • Sequences • Simultaneous equations • 2D and 3D Shapes • Transformations • Perimeter and area • Year 10 revision
<p>11 – S7</p> <p>(OCR GCSE – J560)</p>	<ul style="list-style-type: none"> • Angles and parallel lines • Geometry • Polygons • Ruler and compass construction • Bearings and maps • Trigonometry • Vectors • Coordinates and midpoints • Straight line graphs 	<ul style="list-style-type: none"> • Interpreting graphs • Harder graphs • Real life graphs • Probability • Events and probability diagrams • Statistics • Collecting and analysing data 	<ul style="list-style-type: none"> • Revision and past paper practice