St Vincents - 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)	• Bodmas • Ordering nos and place values • Add, subtract, multiply and divide • Decimals • Multiplying and dividing by 10s and with no calculator • Negative numbers,even and odd nos • Perimeter and area intro • Wordy questions • Units and telling the time • Simpsons maths project	• Square and cube nos • Prime nos • Multiples factors and prime factor • LCM and HCF • Fractions and Percentages • Rounding and estimating • Powers • Square and cube roots • Darts project • Lunar theme park project	• Algebra simplifying and multiplying • Formulas • Word formulas • Solving equations • Number patterns and sequences • Recap of year 7 work
8 – S4 (Nat Curr)	• X and Y coordinates • Straight line graphs • Plotting graphs • Travel graphs and reading them • Conversion graphs • Ratios and proportion • Percentage increase and decrease • Recap of Year 7 work	• Units and Conversion factors • Reading timetables • Maps and scale drawings • Speed • Symmetry • Quadrilaterals • Triangles and polygons • Recap of Year 7 work	• Congruence and similarity • Perimeter and area • Area formulas • Area of compound shapes • Circles • 3d shapes • Recap of Year 7 work
9 – S5	• Nets, surface area and volume • Lines and measuring/drawing angles • Angle rules • Parallel lines	• Constructions • Probability • Outcomes • Venn diagrams	• Frequency tables • Scatter graphs • Standard form • Recap of years 7 and 8

(Nat Curr)	• Interior and exterior angles • Transformations and enlargements • Significant figures • Estimating in science • Mathematical symbols in science • Converting between units	• Line graphs, bar and pie charts • Mean mode median range • Average student project • Plan a holiday project • WW2 code cracking	and consolidation of KS3
10 – S6 (OCR GCSE - J560)	• Four rules and whole number theory • Operations and inverse • Fractions and percentages • Powers and roots • Standard form • Estimation • Ratio • Direct and inverse proportion	• Growth and decay • Algebraic expressions • Formulae • Algebra equations • Inequalities • Rearranging • Functions	• Conversion rates • Compound measures • Sequences • Simultaneous equations • 2D and 3D Shapes • Transformations, Perimeter and area • Year 10 revision
11 – S7 (OCR GCSE – J560)	• Angles and parallel lines • Geometry • Polygons • Ruler and compass construction • Bearings and maps • Pythagoras and Trigonometry • Vectors • Coordinates and midpoints • Straight line graphs	• Interpreting graphs • Harder graphs • Real life graphs • Probability • Events and probability diagrams • Statistics • Collecting and analysing data	• Revision and past paper practice • After exams start maths functional skills