

Maths Programme of Study Y7-11 Core

Assessment objectives covered through all units:

AO1: Use and apply standard techniques. Students should be able to accurately recall facts, terminology and definitions, use and interpret notation correctly and accurately carry out routine procedures or set tasks requiring multi-step solutions.

AO2: Reason, interpret and communicate mathematically. Students should be able to make deductions, inferences and draw conclusions from mathematical information, construct chains of reasoning to achieve a given result, interpret and communicate information accurately, present arguments and proofs, assess the validity of an argument and critically evaluate a given way of presenting information.

AO3: Solve problems within mathematics and in other contexts. Students should be able to translate problems in mathematical or non-mathematical contexts into a process or a series of mathematical processes, make and use connections between different parts of mathematics, interpret results in the context of the given problem, evaluate methods used and results obtained and evaluate solutions to identify how they may have been affected by assumptions made

	Year 7	Year 8	Year 9 (A2 & 3/B2 & 3)
Phase 1	Units: 1 Whole number arithmetic 2 Rounding Numbers 3 Decimals 4 Area 5 Negative numbers 6 Using a calculator 7 Rules of Algebra 8 Properties of number 9 Coordinates 10 Straight line graphs 11 Line and rotational symmetry 12 2D Shapes	Units: 1 Using algebra and expanding brackets 2 Probability 3 Pythagoras' theorem 4 Linear Equations 5 Averages and range 6 Prime factors	Units: 1 Algebra review 2 Data handling 3 Using fractions 4 Working with indices 5 Calculating with standard form 6 Scatter graphs 7 Shape and space review 8 Sequences 9 Rounding, estimation & bounds
Phase 2	Units: 1 Proportion & ratio 2 Fractions 3 More algebra 4 Venn diagrams 5 Fractions, decimals & percentages 6 Percentages 7 Angles 8 Metric and imperial units 9 Estimating 10 Displaying and interpreting data <div style="text-align: center; background-color: #add8e6; padding: 5px;">END OF YEAR EXAM</div> 11 Plans and elevations 12 Constructing triangles	Units: 1 Factorising 2 Percentage change 3 Circles 4 Volume 5 Fractions 6 Sequences 7 Transformation <div style="text-align: center; background-color: #ff7f7f; padding: 5px;">END OF YEAR EXAM</div> 8 Proportion & ratio 9 Bearings and scale drawing	Units: 1 Percentage change 2 Sets and Venn diagrams 3 Solving Quadratics 4 Simultaneous equations 5 Trigonometry 6 Inequalities 7 Charts & graphs 8 Solving quadratics with the formula 9 Compound measures 10 Locus 11 Angle Geometry <div style="text-align: center; background-color: #90ee90; padding: 5px;">END OF YEAR EXAM:</div> 12 Changing the subject 13 Trigonometric Graphs

	Year 10 (10ELW/10PWK)	Year 11 (11b3)
Phase 1	Units: 1 Probability 2 Pythagoras Theorem 3 Right-angled trigonometry 4 Area 5 Volume 6 Identities 7 Indices	Units: 1 Kinematics 2 Proportion 3 Presenting Data 4 Solving quadratics
Phase 2	Units: 1 Transformations 2 Similar shapes 3 Straight line graphs 4 Exact values and right-angled trigonometry 5 Function machines 6 Using Formulae	Units: 1 Simultaneous equations 2 3D Shapes 3 Vectors 4 Inequalities
YEAR 10 EXAMS		TRIAL EXAMS
Phase 3	Units: 1 Rearranging formulas 2 Angles and 2D shapes 3 Congruent triangles 4 Fractions 5 Fractions, decimals, and percentages 6 Solving linear equations 7 Algebraic fractions 8 Standard Form	REVISION
Phase 4	Units: 1 Estimating and rounding 2 Bounds 3 Maps scales	STUDY LEAVE