







Year 11 PPE#1

Higher Nov/Dec 2025




Paper 1 (non calc)

Topic	Sparx Code	R 	A 	G 
Solving double inequalities	U145			
Constructing and solving quadratic equations	U150			
Translation	U196			
Factorising to solve quadratic equations	U228			
Graphs of exponential functions	U229			
Multiplying and dividing numbers in standard form	U264			
Frequency trees	U280			
Using exact values of trigonometric ratios	U319			
Completing the square	U397			
Angles subtended at the circumference of a circle	U459			
Reflecting graphs	U487			
Using standard form with negative indices	U534			
Dividing fractions	U544			
Sharing amounts in a given ratio	U577			
Writing algebraic proofs	U582			
Translating graphs	U598			
Angles in triangles	U628			
Rotation	U696			
Rationalising denominators	U707			
Choosing suitable averages and solving problems	U717			
Tree diagrams for dependent events	U729			
Adding and subtracting fractions,	U736			
Ordering fractions,	U746			
Venn diagrams with set notation	U748			
Using equivalent ratios to find unknown amounts	U753			
Solving simultaneous equations using elimination	U760			
Expanding double brackets	U768			
Finding the turning point of a quadratic graph by completing the square	U769			
Indices of the form a/b	U772			
Interpreting box plots	U837			
Calculating with roots and powers	U851			
Adding and subtracting surds	U872			
Solving shape problems involving coordinates	U889			
Calculating with density	U910			
Reciprocals	M216			

Paper 2 (calc)

Topic	Sparx Code	R 	A 	G 
Using lines of best fit	U128			
Solving quadratic inequalities	U133			
Enlargement by a positive or negative scale factor	U134			
Calculating with speed	U151			
Sampling and bias	U162			
Expanding single brackets	U179			
Finding the percentage an amount has been changed by	U278			
Finding unknown sides in right-angled triangles	U283			
Finding original values in percentage calculations	U286			
Finding equations of straight line graphs	U315			
Finding percentages of amounts with a calculator	U349			
Factorising into one bracket	U365			
Finding the area of sectors	U373			
Constructing direct proportion equations	U407			
Angles in polygons	U427			
Finding composite	U448			
Finding the highest common factor (HCF)	U529			
Tree diagrams for independent events	U558			
Equations of circles and tangents	U567			
Algebraic proof	U582			
Drawing line graphs	U590			
The cosine rule	U591			
Finding the circumference of circles,	U604			
Finding error intervals	U657			
Solving quadratic equations using the quadratic formula	U665			
Probabilities of mutually exclusive events	U683			
Prime factor decomposition	U739			
Finding the lowest common multiple (LCM)	U751			
Solving geometric problems using vectors	U781			
Interpreting histograms	U983			
Growth and decay	U988			
Inverse functions	U996			

Paper 3 (calc)

Topic	Sparx Code	R 	A 	G 
Solving quadratic inequalities	U133			
Constructing fractions	U163			
Interpreting pie charts	U172			
Converting between ratios, fractions and percentages	U176			
Drawing cumulative frequency graphs	U182			
Position-to-term rules for quadratic sequences	U206			
Drawing and interpreting scale diagrams	U257			
Find the percentage an amount has been changed by	U278			
Sketching quadratic graphs	U310			
Using the product rule for counting	U369			
Equations of parallel lines	U377			
Converting units of length, mass and capacity	U388			
Venn diagrams	U476			
Finding the equation of a straight line from its gradient and a point	U477			
Position-to-term rules for arithmetic sequences	U498			
Measuring and drawing bearings	U525			
Presenting data and making conclusions	U571			
Writing algebraic proofs	U582			
Finding bounds for calculations	U587			
The area rule	U592			
Constructing and solving equations	U599			
Finding the volume of spheres	U617			
Finding the perimeter and area of similar shapes,	U630			
Interpreting cumulative frequency graphs	U642			
Simplifying fractions	U646			
Writing and simplifying ratios	U687			
Graphs of linear inequalities	U747			
Using equivalent ratios to find unknown amounts	U753			
Identifying parts of circles	U767			
Factorising quadratic expressions of the form ax^2+bx+c	U858			
Averages from grouped data,	U877			
Finding the volume of cylinders	U915			
Finding fractions of amounts,	U916			
Plotting velocity-time graphs	U937			
The sine rule	U952			