Year 11 PPE
February 2025
Higher Paper 1 revision list
Non Calculator

Topic	Sparx Number	R	A	G
Multiplying decimal numbers e.g. 1.2×1.3	U293			
Completing function machines	M175			
Problem solving with mode, median and range	U260 U456 U526			
Geometric sequences *e.g. what is the next number in the sequence 2, 4, 8, 16, ...*	U213			
Fibonacci number sequences	U680			
Finding the number of faces, edges and vertices from a prism	U719			
Finding the volume of a prism	U174			
Subtracting mixed numbers e.g. $7\frac{1}{3} - 4\frac{5}{6}$	U793			
Problem solving with area of circles	U950			
Inverse proportion problems. *e.g. if it takes 3 hours for 8 men to paint a wall, how long would it take 5 men?*	U357			
Column vector arithmetic e.g. $\begin{pmatrix} 3 \\ 4 \end{pmatrix} + 2 \begin{pmatrix} 7 \\ 3 \end{pmatrix}$	U903			
Venn diagrams	U476			
Loci problems	U820			
Converting a fraction to a recurring decimal, using short (bus stop) division	U550			
Converting a recurring decimal to a fraction, using an algebraic method	U689			
Estimating answers to calculations by rounding numbers to 1 significant figure	U225			
Finding values of sin, cos and tan for 30, 60 and 90° Memorize the trig table singing a song	U627			
Using the cosine rule to find the size of an angle in a non-right angled triangle	U591			

Enlarging a shape by a fractional scale factor	U519			
Enlarging a shape by a negative scale factor	U134			
Solving 2 step linear inequalities	U759			
Representing an inequality on a number line	U509			
Error intervals for truncated numbers	U301			
Equation of a circle $$x^2 + y^2 = r^2$$	U567			
Completing the square	U397			
Finding the turning point of a quadratic by completing the square	U769			
Expand and simplify triple brackets	U606			
Rationalising the denominator (surds)	U707			
Simplifying surds	U338			
Finding the solutions to an equation from a trigonometric graph	U450			
Laws of indices, including negative and fractional indices	U235 U694			
Graph transformations				