## Year 10 June 2025 PPE FOUNDATION Revision list

Торіс	Sparx Number	R	Α	G
Equivalence between FDP				
Example $20\% = 0.2 = \frac{20}{100}$	M624 / U888			
Shading a fraction of a shape	U679			
Converting between mixed numbers and improper fractions	U692			
Calculations including all four operations with fractions	U544 U538			
(adding, subtracting, multiplying & dividing fractions)	U475 U224 U736 U793			
Simplifying fractions	U646			
Finding fractions of amounts	U916			
Worded problems involving fractions	U874			
Multipliers (increase and decrease)ExampleIncreasing by 20% x1.2Decreasing by 20% x0.8	U671			
Finding percentages of an amount Example Find 57% of 80	U349			
Simple Interest	U533			
Percentage Change	M533			
Reverse Percentages (find the original amount)	U286			
Three basic index laws Examples $a^4 \times a^7 = a^{11}$ $b^9 \div b^2 = b^7$ $(b^4)^2 = b^8$	U235			
Knowing any number to the power zero equals one Example $a^0 = 1$	U235			
Calculating reciprocals				
Example $2 \rightarrow \frac{1}{2}$	M216			
Simplifying algebraic notation including indices	U105/ U662			
Negative index laws	U662			
Simplifying algebraic notation which include negative powers	U662			
Example $5x^3y \times 2x^{-1}y^2$				

Торіс	Sparx Number	R	A	G
Types of angles (acute, obtuse, reflex)	U447			
Angle facts - on a straight line (180° on a straight line)	U390			
Angle facts – around a point (360° around a point)	U390			
Angle facts – in a triangle (180° in a triangle)	U628			
Angle facts – in a quadrilateral $(360^{\circ} \text{ in any quadrilateral})$	U732			
Angles in regular polygons	U427			
Angle facts – on Parallel lines (Vertically opposite, Alternate, Corresponding, Co-interior)	U826			
Area and perimeter of a rectangle	U993			
Volume of a cuboid	U786			
Area of a triangle	U945			
Area of a parallelogram	U424			
Area of a trapezium	U265			
Labelling parts of a circle	U767			
Area of a circle	U950			
Circumference of a circle	U604			
Probability scale	U803 U510			
Probability from mutually exclusive events	U683			
Relative frequency	U580			
Probability trees	U806			
Completing venn diagrams	U699			
Set notation	U748			

Торіс	Sparx Number	R	Α	G
Co-ordinates in all 4 quadrants	U789			
Finding the midpoint of a line on a co-ordinate grid	U983			
Plotting straight line graphs	U741			
Reading from a straight line graph	U669			
Finding the gradient from a straight line graph	U315			
Pictograms	0506			
Drawing bar charts	U508			
Interpreting pie charts	U172			
Reading from composite bar charts	U557			
Frequency trees	U280			
Sharing amounts in a given ratio	U577			
Ratio in the form 1 : n	U687			
Converting between ratio and fractions	U176			