Maths Feb 2024 PPE Higher Topic Checklist

Paper 1: Non-calculator

Topic	R	A	G
Lowest common multiples			
Interior and exterior angles in polygons			
Calculating midpoints of straight lines			
Simplifying algebraic expressions			
Calculations involving powers and roots			
Describing correlations of graphs			
Estimations			
Percentages of amounts			
Area problems involving ratio			
Interpreting quadratic graphs			
Area of circles and sectors			
Factorising into double brackets			
Standard form			
Proving identities			
Problems involving time and ratio			
Box plots			
Medians and quartiles			
Venn Diagrams			
Inequality notation			
Transformations			
Plotting coordinates to create polygons			
Converting recurring decimals into fractions			
Recurring decimal calculation			
Exact trig values			
Functions involving composite and inverse			
Circle theorems			
Calculations involving surds			
Perpendicular lines			
Gradient of lines			
Geometric progression			
Index laws, involving fractional and negatives			
Vectors			
Trigonometric graphs			

Paper 2: Calculator

Topic	R	A	G
Expanding single brackets			
Converting decimals into improper fractions			
Percentages of amounts			
Pythagoras Theorem			
Bearings			
Problems involving money			
Fractions of amounts			
Volume of prisms			
Average speed calculations			
Sequences involving algebra			
Set notation			
Relative frequency			
Mean from tables			
Straight line graphs			
Scales diagrams			
Estimation			
Interpreting inequality notation			
Cumulative frequency graphs			
Writing appropriate criticisms			
Completing the square			
Direct proportion			
Rearranging formula			
Problems involving metric units and conversions			
Factorising into single brackets			
Distance time graphs			
Acceleration calculation			
Algebraic fractions			
Similar shapes including volume			
Iterative problems			
Functions			
3D Pythagoras theorem			
Product rule of counting			

Paper 3: Calculator

Topic	R	A	G
Linear sequence			
Enlargement			
Error intervals			
Cubic graphs			
Percentage increase and decrease			
Problems with fractions			
Primes, cubes and squares			
Recognising recurring decimals			
Trigonometry			
Tree diagrams			
Simultaneous equations			
Angles in parallel lines			
Frequency tables			
Plotting frequency density graphs			
Volume of frustums			
Density calculations			
Vectors			
Circle theorems			
Interpreting quadratic graphs			
Simplifying algebraic fractions			
Proving congruence			
Solving equations with unknowns both sides			
Interpreting graphs			
Surface area of prisms			
Area of a triangle using trigonometry			
Sine and cosine rule			
Algebraic ratio			
Probability			
Column vector notation			
Equation of straight lines			