

Year 10 Further Mathematics Assessment Topic List (Calculator allowed)

Number & Algebra

Topic	Additional Information
Solving equations	Including single brackets, letter on both sides, fraction equation, forming equations, non-integer solutions
Expanding brackets & simplifying expressions	Single & double brackets
Factorising – common terms only	Including numerical and letter factors with powers
Ratio	Simplifying and dividing an amount
Correcting to significant figures	
Laws of Indices	Evaluate (number), simplifying (algebra), positive indices only
Percentages	Including increase/decrease by given %, reverse percentages (finding original amount), finding % increase/decrease
Equation of straight line ($y = mx + c$)	Including drawing line given equation Given line; finding gradient, y-intercept & stating equation
Fractions	All operations (+, −, ×, ÷) including problem-style
Substitution into formula	

Geometry & Measure

Topic	Additional Information
Pythagoras' theorem	
Area & perimeter compound shapes	Including triangle, trapezium, parallelogram, circle (full, semi & quarter only) and questions where area has been given
Volume	Prisms only
Angles	Including triangles, quadrilaterals & parallel lines

Handling Data

Topic	Additional Information
Probability	Including summing to 1, 'not' probability, 'OR' rule, how many, possibility spaces, probability trees, 2-way tables
Mean, mode, median & range	From a list, including finding missing value given the mean
Scatter graphs	Including reading from line of best fit