

Suggested Routes for Year 9B

The suggested routes here are only guidelines and you should use your professional judgement in making decisions about how appropriate particular sections are for your class. The key used means

- ✓ core material
- (✓) material that could at least, in part, be covered
- ✗ inappropriate material

Note though that, particularly on the Express route, much of the core material will be revision and will take very little time.

UNIT	Standard	Academic	Express	NNS Ref.
9. AREA, PERIMETER AND VOLUME				
9.1 2-D Shapes	✓	(✓)	✗	7.5.1
9.2 Area of Special Shapes	✓	✓	(✓)	8.5.5
9.3 Perimeter of Special Shapes	✓	✓	(✓)	8.5.5
9.4 Surface Area and Volume of 3-D Shapes	(✓)	✓	✓	9.5.5
10. SEQUENCES				
10.1 Sequences: Constant Differences	✓	✓	✓	8.4.2
10.2 Finding the Formula	(✓)	✓	✓	8.4.2
10.3 Linear and Quadratic Differences	✗	(✓)	✓	9.4.2
10.4 Special Sequences	✗	✓	✓	9.4.2
11. ALGEBRAIC MANIPULATION				
11.1 Equations, Formulae and Identities	✓	✓	(✓)	8.4.1
11.2 Simplifying Expressions	(✓)	✓	✓	8.4.1
11.3 Factorising	✗	✓	✓	9.4.1
11.4 Using Formulae	✗	✓	✓	9.4.1
12. ANGLES, CONSTRUCTIONS AND LOCI				
12.1 Angles	✓	✓	(✓)	8.5.1
12.2 Constructions	(✓)	✓	✓	8.5.4
12.3 Loci	✗	✓	✓	9.5.4

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13. GRAPHS, EQUATIONS AND INEQUALITIES					
13.1	Linear Inequalities	(✓)	✓	✓	9.4.1
13.2	Graphs of Quadratic Expressions	×	(✓)	✓	9.4.3
13.3	Cubic and Reciprocal Functions	×	(✓)	✓	9.4.3
13.4	Solving Non-Linear Equations	×	✓	✓	
13.5	Quadratic Inequalities	×	(✓)	✓	9.4.1
14. ESTIMATION AND APPROXIMATION					
14.1	Rounding	✓	✓	(✓)	8.1.1
14.2	Estimation	✓	✓	✓	8.2.4
14.3	Calculator Use	✓	✓	✓	8.2.3
14.4	Error Propagation	×	×	✓	9.2.4
15. TRIGONOMETRY					
15.1	Pythagoras' Theorem	(✓)	✓	(✓)	9.5.1
15.2	Trigonometric Functions	×	✓	✓	N/A
15.3	Calculating Sides	×	✓	✓	N/A
15.4	Calculating Angles	×	✓	✓	N/A
16. CUMULATIVE FREQUENCY					
16.1	Averages	✓	✓	(✓)	9.6.3
16.2	Grouped Data	(✓)	✓	(✓)	9.6.3
16.3	Cumulative Frequency	×	(✓)	✓	N/A
16.4	Box and Whisker Plots	×	×	✓	N/A
17. QUADRATIC FUNCTIONS					
17.1	Quadratic Expressions	×	(✓)	✓	9.4.1
17.2	Quadratic Equations: Factorisation	×	×	✓	9.4.1
17.3	Quadratic Equations: Complete the Square	×	×	(✓)	N/A
18. SAMPLING					
18.1	Random Samples	×	(✓)	✓	9.6.1
18.2	Sampling Techniques	×	(✓)	✓	9.6.1
18.3	Stratified Samples	×	(✓)	✓	N/A