

Suggested Routes for Year 9A

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
1. BASE ARITHMETIC			
1.1 Binary Numbers	✓	✓	✓
1.2 Adding and Subtracting Binary Numbers	✓	✓	✓
1.3 Multiplying Binary Numbers	(✓)	✓	✓
1.4 Other Bases	×	✓	✓
2. BASIC OPERATIONS			
2.1 Place Value	✓	(✓)	×
2.2 Addition and Subtraction	✓	(✓)	×
2.3 Multiplication and Division	✓	(✓)	×
2.4 Problems in Context	✓	(✓)	×
3. INDICES AND STANDARD FORM			
3.1 Index Notation	✓	✓	(✓)
3.2 Laws of Indices	(✓)	✓	✓
3.3 Negative Indices	×	(✓)	✓
3.4 Standard Form	×	(✓)	✓
3.5 Fractional Indices	×	×	✓
4. FRACTIONS AND PERCENTAGES			
4.1 Equivalent Fractions	✓	(✓)	×
4.2 Fractions of Quantities	✓	✓	×
4.3 Operations with Fractions	(✓)	✓	(✓)
4.4 Fraction, Decimal and Percentage Equivalents	✓	✓	(✓)
4.5 Percentage Increases and Decreases	(✓)	✓	(✓)

UNIT	Standard	Academic	Express
5. LINEAR GRAPHS AND EQUATIONS			
5.1	Coordinates	✓	(✓) ✕
5.2	Straight Line Graphs	✓	✓ (✓)
5.3	Linear Equations	✓	✓ (✓)
5.4	Parallel and Perpendicular Lines	✕	✓ ✓
5.5	Simultaneous Equations	✕	(✓) ✓
5.6	Equations in Context	✕	✓ ✓
6. PROBABILITY			
6.1	The Probability Scale	✓	(✓) ✕
6.2	The Probability of a Single Event	✓	✓ (✓)
6.3	The Probability of Two Events	✕	✓ ✓
6.4	Theoretical and Experimental Probabilities	✕	(✓) ✓
7. TRANSFORMATIONS			
7.1	Shapes	✓	(✓) ✕
7.2	Translations	✓	✓ (✓)
7.3	Enlargements	✓	✓ (✓)
7.4	Reflections	✓	✓ ✓
7.5	Rotations	(✓)	✓ ✓
7.6	Combining Transformations	✕	(✓) ✓
8. STATISTICAL DIAGRAMS			
8.1	Data Collection, Extraction and Presentation	✓	✓ (✓)
8.2	Statistical Measures	✓	✓ ✓
8.3	Plotting Scatter Diagrams	✓	✓ ✓
8.4	Lines of Best Fit	✓	✓ ✓
8.5	Equation of Line of Best Fit	✕	(✓) ✓