

## Suggested Routes for Year 8B

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 in the Arithmetic units, much of the core material will be revision and should be quickly recapped.

UNIT	Standard	Academic	Express
<b>12. FORMULAE</b>			
12.1 Substitution 1	✓	✓	✗
12.2 Substitution 2	✓	✓	✓
12.3 Linear Equations 1	✓	✓	✓
12.4 Linear Equations 2	✓	✓	✓
12.5 Non-Linear Equations	✗	✗	✓
12.6 Changing the Subject of a Formula	✗	✓	✓
<b>13. MONEY AND TIME</b>			
13.1 Money	✓	✓	(✓)
13.2 Time	✓	✓	(✓)
13.3 Time and Money	✓	✓	(✓)
<b>14. STRAIGHT LINE GRAPHS</b>			
14.1 Coordinates	✓	✓	✗
14.2 Plotting Points on a Straight Line	✓	✓	(✓)
14.3 Plotting Graphs Given Their Equations	(✓)	✓	✓
14.4 The Equation of a Straight Line	✗	✓	✓
14.5 The Equation of a Line Given Two Points	✗	✗	✓
<b>15. POLYGONS</b>			
15.1 Angle Facts	✓	✓	(✓)
15.2 Angle Properties of Polygons	(✓)	✓	✓
15.3 Symmetry	✓	✓	✓
15.4 Quadrilaterals	✓	✓	✓

<b>UNIT</b>	<b>Standard</b>	<b>Academic</b>	<b>Express</b>	
<b>16. CIRCLES AND CYLINDERS</b>				
16.1	Introduction to Circles	✓	✓	✓
16.2	Estimating the Circumference of a Circle	✓	✓	✓
16.3	Estimating the Area of a Circle	✓	✓	✓
16.4	Formulae for Circumference and Area	✓	✓	✓
16.5	Problems in Context	×	✓	✓
16.6	Volume and Surface Area of a Cylinder	×	(✓)	✓
<b>17. UNITS OF MEASURE</b>				
17.1	Estimating Metric Units of Length, Mass and Capacity	✓	✓	✓
17.2	The Metric System: Conversion Between Units	✓	✓	✓
17.3	Estimating Imperial Units of Length, Mass and Capacity	✓	✓	✓
17.4	Metric and Imperial Units	(✓)	✓	✓
17.5	Problems in Context	(✓)	✓	✓
<b>18. SPEED, DISTANCE AND TIME</b>				
18.1	Speed	✓	✓	✓
18.2	Calculating Speed, Distance and Time	(✓)	✓	✓
18.3	Problems with Mixed Units	(✓)	✓	✓
18.4	Distance-Time Graphs	×	✓	✓
18.5	Other Compound Measures	×	(✓)	✓
<b>19. SIMILARITY</b>				
19.1	Enlargement	✓	✓	✓
19.2	Similar Shapes	✓	✓	✓
19.3	Line, Area and Volume Ratios	(✓)	✓	✓
19.4	Maps and Scale Models	×	(✓)	✓
<b>20. QUESTIONNAIRES AND ANALYSIS</b>				
20.1	Questionnaire Design	✓	✓	✓
20.2	Data Display	✓	✓	✓
20.3	Line Graphs	(✓)	✓	✓