

MATHS LEARNING PATH STATEMENTS YEAR 8

YEAR 8	MATHS LEARNING PATH 1 LP1	MATHS LEARNING PATH 2 LP2	MATHS LEARNING PATH 3 LP3	MATHS LEARNING PATH 4 LP4
St 1	Find multiples of 1% of a number (including greater than 100%)	Find multiples of 5% of a number (including greater than 100%)	Find any given fraction of an amount (including greater than one)	Find unit fractions of amounts
St 2	Solve multi-step equations with brackets	Solve two-step equations (including use of division)	Solve one-step equations (including use of division)	Solve missing number problems using addition, subtraction and multiplication
St 3	Add and subtract mixed numbers and fractions	Add and subtract fractions	Add and subtract fractions where one denominator is a multiple of the other	Add and subtract fractions with the same denominator
St 4	Calculate with numbers in standard form	Convert numbers between standard form and normal numbers	Apply power laws	Use and understand power notation
St 5	Multiply and divide mixed numbers	Multiply and divide fractions	Multiply fractions by whole numbers	Multiply fractions
St 6	Factorise linear expressions	Expand double brackets	Expand single brackets	Simplify expressions by collecting like-terms
St 7	Complete and use a sample space diagram to calculate probabilities	Complete and use a frequency tree to calculate probabilities	Complete and use a two-way table to calculate probabilities	Calculating simple probabilities using the fact that the total probability will add to 1
St 8	Solve equations with unknowns on both sides and brackets	Solve equations with unknowns on both sides	Find the perimeter of compound shapes	Find the perimeter of basic 2D shapes
St 9	Find the area of compound shapes	Find the area of trapezia	Find the area of triangles	Find the area of rectangles and parallelograms
St 10	Find the nth terms of any linear sequence and identify whether a number will appear in the sequence	Find the nth term of an increasing or decreasing linear sequence	Find the nth term of an increasing linear sequence	Find the term-to-term rule for a sequence

Year 8 LP1: Terms 1-6 Topics

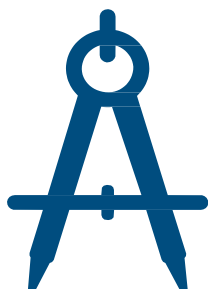
The table below summarises the key learning path topics covered so far this year. You can use the information to review which topics you may need more work on.

Learning Path Skill	Maths Topic	Sparx Maths Clip Numbers for Revision
1	Percentages	LP1 – Percentages of Amounts – M437
2	Equations	LP1 – Multi-Step Equations – M855/M509
3	Fractions	LP1 – Add & Subtract Mixed Numbers – M931
4	Standard Form	LP1 – Standard Form Calculations – M719
5	Fractions	LP1 – Multiply/Divide Mixed Numbers – M197/265
6	Factorising	LP1 – Factorise Expressions – M100
7	Probability	LP1 – Sample Spaces – M718
8	Equations	LP1 – Multi-Step/Unknowns Both Sides – M554
9	Area	LP1 – Area of Compound Shapes – M269/996/303
10	Sequences	LP1 – nth Term Problems – M991/866

Sparx Maths Clip numbers have been included to allow you to target revision of these topics. To see video explanations of these topics and to access more practice questions:

- Go to the Sparx Maths website (www.sparxmaths.co.uk/student).
- Select King Alfred's Academy from the list of schools
- Click on "Log in to Sparx using Microsoft"
- Enter your school email and password
- Click on "Independent Learning"
- Select "Key Stage 3" as your curriculum
- Search for the clip number of the skill you want to practice.

All of these topics will continue to be reviewed regularly in lessons and independent study over the rest of the year, so there are plenty of opportunities to make progress.



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Year 8 LP2: Terms 1-6 Topics

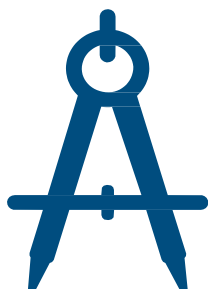
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Learning Path Skill	Maths Topic	Sparx Maths Clip Numbers for Revision
1	Percentages	LP2 – Percentages of Amounts – M437
2	Equations	LP2 – Two-Step Equations – M634/647/855/401
3	Fractions	LP2 – Add & Subtract Fractions – M835
4	Standard Form	LP2 – Convert to/from Standard Form – M719
5	Fractions	LP2 – Multiply/Divide Fractions – M157/M110
6	Expanding	LP2 – Expand Double Brackets – M960
7	Probability	LP2 – Frequency Trees – U280
8	Equations	LP2 – Unknowns Both Sides – M554
9	Area	LP2 – Area of Trapezia – M705
10	Sequences	LP2 – nth Term Linear – M991/866

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Year 8 LP3: Terms 1-6 Topics

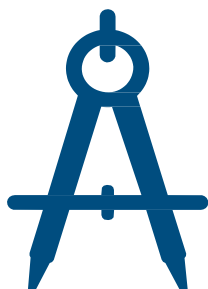
The table below summarises the key learning path topics covered so far this year. You can use the information to review which topics you may need more work on.

Learning Path Skill	Maths Topic	Sparx Maths Clip Numbers for Revision
1	Fractions	LP3 – Fractions of Amounts – M695
2	Equations	LP3 – One-Step Equations – M707
3	Fractions	LP3 – Add & Subtract Fractions – M835
4	Powers	LP3 – Power Laws – M608/M120
5	Fractions	LP3 – Multiply Fractions – M157
6	Algebra	LP3 – Expand Single Brackets – M237
7	Probability	LP3 – Two Way Tables – M945
8	Perimeter	LP3 – Perimeter of Compound Shapes – M690
9	Area	LP3 – Area of Triangles – M610
10	Sequences	LP3 – nth Term Linear – M991/866

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- Enter your school email and password
- Click on "Independent Learning"
- Select "Key Stage 3" as your curriculum
- Search for the clip number of the skill you want to practice.

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Year 8 LP4: Terms 1-6 Topics

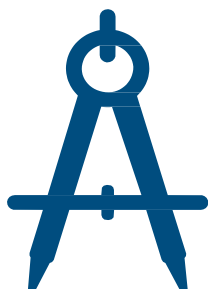
The table below summarises the key learning path topics covered so far this year. You can use the information to review which topics you may need more work on.

Learning Path Skill	Maths Topic	Sparx Maths Clip Numbers for Revision
1	Fractions	LP4 – Unit Fractions of Amounts – M695
2	Equations	LP4 – Missing Numbers – M707
3	Fractions	LP4 – Adding with Same Denominators – M835
4	Powers	LP4 – Writing Powers – M608
5	Fractions	LP4 – Multiply Fractions – M157
6	Algebra	LP4 – Collect Like Terms – M795/M531/M949
7	Probability	LP4 – Probability Calculations – M941/M938
8	Perimeter	LP4 – Perimeter of Shapes – M635
9	Area	LP4 – Rectangles/Parallelograms – M390/291
10	Sequences	LP4 – Term-to-Term Rules – M381/241

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