MATHS LEARNING PATH STATEMENTS YEAR 7

YEAR 7	MATHS LEARNING PATH 1 LP1	MATHS LEARNING PATH 2 LP2	MATHS LEARNING PATH 3 LP3	MATHS LEARNING PATH 4 LP4
St 1	Calculate using cubes and cube roots	Calculate using squares and square roots	Know square numbers and square roots up to 144	Multiply and divide by 10, 100, 1000
St 2	Estimate any calculation, including calculations involving division and roots	Estimate calculations involving addition, subtraction & multiplication	Round numbers to any place value	Round numbers to the nearest 10, 100 and 1000
St 3	Find the HCF and LCM of three numbers using Venn diagrams	Find the HCF and LCM of two numbers using Venn diagrams	Express the prime factor decomposition of a number	Identify factors, multiples and primes
St 4	Order fractions, decimals and percentages	Compare fractions by finding a common denominator	Convert between mixed and improper fractions	Find equivalent fractions
St 5	Apply all four operations with negative numbers	Add and subtract with negative numbers	Add and subtract numbers including decimals with different amounts of digits	Add and subtract any 4 & 3 digit whole numbers
St 6	Find missing angles in polygons or parallel lines	Find missing angles in regular and irregular polygons	Find missing angles in triangles and quadrilaterals	Find missing angles on straight lines and around a point
St 7	Multiply two decimal numbers	Multiply a decimal number by a whole number	Multiply a two digit number by a two digit number	Multiply a two digit number by a single digit number
St 8	Divide two decimal numbers	Divide any number by a single digit number where the answer is a terminating or recurring decimal	Divide decimals by single digit numbers where the number divides exactly	Divide whole numbers by single digit numbers where the number divides exactly
St 9	Apply order of operations, including calculations with directed numbers	Apply order of operations to calculations with the four main operations, brackets and powers	Apply order of operations to calculations with the four main operations and brackets	Apply order of operations to calculations involving the four main operations
St 10	Share amounts in a ratio where the difference, not amount, is given	Share amounts in a given ratio (with up to three parts)	Find equivalent ratios and simplify ratios	Write ratios from worded problems

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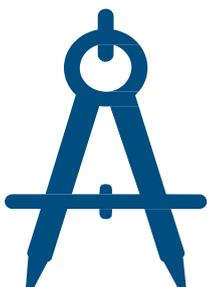OPPORTUNITY FOR ALL

Year 7 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	Powers/Roots	LP1 – Power and Roots Calculations - **M135**
2	Rounding	LP1 – Estimating Calculations – **M878**
3	Factors & Multiples	LP1 – HCF and LCM problems – **M365**
4	Fractions, Decimals, Percentages	LP1 – Ordering FDP – **M553**
5	Negative Numbers	LP1 – Negative number calculations – **M106/M288**
6	Angles	LP1 – Polygons and Parallel Lines – **M653/M606**
7	Multiplication	LP1 – Multiplying Decimals – **M803**
8	Division	LP1 – Dividing Decimals – **M491**
9	Order of Operations	LP1 – BIDMAS Problems – **M521**
10	Ratio	LP1 – Sharing Ratio Problems – **M525**

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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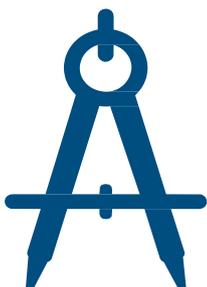
Year 7 LP2: Terms 1 - 6 Topics

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	Powers/Roots	LP2 – Power and Roots Calculations – **M135**
2	Rounding	LP2 – Estimating Calculations – **M878**
3	Factors and Multiples	LP2 – HCF and LCM - **M365**
4	Fractions	LP2 – Ordering Fractions – **M335**
5	Negative Numbers	LP2 – Negative number calculations – **M106/M288**
6	Angles	LP2 – Angles in Polygons – **M653**
7	Multiplication	LP2 – Multiplying Decimals – **M803**
8	Division	LP2 – Dividing Decimals – **M262**
9	Order of Operations	LP2 – BIDMAS – **M521**
10	Ratio	LP2 – Sharing in a Ratio – **M525**

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:

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- 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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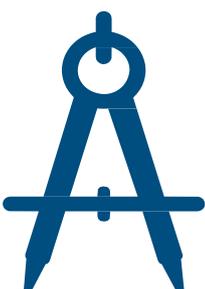## Year 7 LP3: Terms 1 - 6 Topics

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	Powers/Roots	LP3 – Squares and Square Roots - **M135**
2	Rounding	LP3 – Rounding Decimals – **M431**
3	Factors and Multiples	LP3 – Prime factors – **M108**
4	Fractions	LP3 – Mixed Numbers – **M601**
5	Addition/Subtraction	LP3 – Add/Subtract Decimals – **M429/M152**
6	Angles	LP3 – Angles in Triangles/Quadrilaterals – **M351/M679**
7	Multiplication	LP3 – Multiplying Integers – **M187**
8	Division	LP3 – Dividing Integers – **M354**
9	Order of Operations	LP3 – Brackets and Calculations – **M521**
10	Ratio	LP3 – Equivalent Ratios – **M885/M801**

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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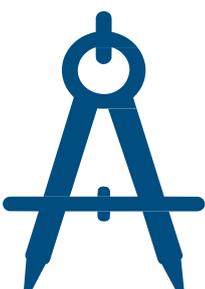# MATHEMATICS

Year 7 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	Powers	LP4 – Multiply/Divide by 10, 100, 1000 – **M113**
2	Rounding	LP4 – Rounding 10, 100, 1000 – **M111**
3	Factors and Multiples	LP4 – Factors, Multiples, Primes – **M823/M322**
4	Fractions	LP4 – Equivalent Fractions – **M410/M671**
5	Addition/Subtraction	LP4 – Add/Subtract – **M928/M347**
6	Angles	LP4 – Around a Point – **M818**
7	Multiplication	LP4 – Multiplying Integers – **M187**
8	Division	LP4 – Dividing Integers with Remainder – **M873**
9	Order of Operations	LP4 – Calculations without Brackets – **M521**
10	Ratio	LP4 – Writing Ratios – **M885**

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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