



# **Lanark Grammar School Mathematics Department**

## **S1 Level 3 Course Outline**

Unit 1		
Skills and Understanding	Video	
<b>Rounding</b>		
Rounding Revision	<a href="https://corbettmaths.com/2013/10/24/rounding-to-the-nearest-whole-number/">https://corbettmaths.com/2013/10/24/rounding-to-the-nearest-whole-number/</a> <a href="https://corbettmaths.com/2013/08/17/rounding-to-the-nearest-10/">https://corbettmaths.com/2013/08/17/rounding-to-the-nearest-10/</a> <a href="https://corbettmaths.com/2013/08/17/rounding-to-the-nearest-100/">https://corbettmaths.com/2013/08/17/rounding-to-the-nearest-100/</a>	
Round to decimal places	<a href="https://corbettmaths.com/2013/09/07/rounding-to-1-or-2-decimal-places/">https://corbettmaths.com/2013/09/07/rounding-to-1-or-2-decimal-places/</a>	
Calculator Problems and Problems in Context		
<b>Whole Numbers, Decimals and Order of Operations</b>		
Add/Subtract/Multiply/Divide	<a href="https://corbettmaths.com/2013/02/15/multiplication-traditional/">https://corbettmaths.com/2013/02/15/multiplication-traditional/</a> <a href="https://corbettmaths.com/2016/01/07/place-value-operations/">https://corbettmaths.com/2016/01/07/place-value-operations/</a>	
Calculator techniques	<a href="https://corbettmaths.com/2013/02/15/use-of-a-calculator/">https://corbettmaths.com/2013/02/15/use-of-a-calculator/</a>	
Mental Calculations	<a href="https://corbettmaths.com/2015/12/10/times-tables/">https://corbettmaths.com/2015/12/10/times-tables/</a>	
Multiply by Multiples of 10/100/1000 etc	<a href="https://corbettmaths.com/2013/06/06/multiplication-by-10-100-and-1000-2/">https://corbettmaths.com/2013/06/06/multiplication-by-10-100-and-1000-2/</a>	
Divide by Multiples of 10/100/100 etc	<a href="https://corbettmaths.com/2013/05/19/division-by-10-100-and-1000/">https://corbettmaths.com/2013/05/19/division-by-10-100-and-1000/</a>	
Order of Operations 'BODMAS'	<a href="https://corbettmaths.com/2013/06/08/order-of-operations/">https://corbettmaths.com/2013/06/08/order-of-operations/</a>	
<b>Fractions, Percentages and Decimals</b>		
Fraction of a Quantity - Revision	<a href="https://corbettmaths.com/2012/08/20/fractions-of-amounts/">https://corbettmaths.com/2012/08/20/fractions-of-amounts/</a>	
Percentages without a Calculator	<a href="https://corbettmaths.com/2012/08/20/percentages-of-amounts-non-calculator/">https://corbettmaths.com/2012/08/20/percentages-of-amounts-non-calculator/</a>	
Problems - Ordering	<a href="https://corbettmaths.com/2013/04/15/ordering-fractions-decimals-percentages/">https://corbettmaths.com/2013/04/15/ordering-fractions-decimals-percentages/</a>	

<b>Percentages with a Calculator</b>	<a href="https://corbettmaths.com/2013/02/15/percentages-of-an-amount-calculator/">https://corbettmaths.com/2013/02/15/percentages-of-an-amount-calculator/</a>	
<b>Problems in context</b>	<a href="https://corbettmaths.com/2012/08/21/increasing-or-decreasing-by-a-percentage/">https://corbettmaths.com/2012/08/21/increasing-or-decreasing-by-a-percentage/</a>	
<b>Fractions, Decimals and Percentages - Equivalence</b>	<a href="https://corbettmaths.com/2013/02/15/decimals-to-fractions/">https://corbettmaths.com/2013/02/15/decimals-to-fractions/</a> <a href="https://corbettmaths.com/2013/02/15/fractions-to-decimals/">https://corbettmaths.com/2013/02/15/fractions-to-decimals/</a> <a href="https://corbettmaths.com/2012/08/19/decimals-to-percentages/">https://corbettmaths.com/2012/08/19/decimals-to-percentages/</a> <a href="https://corbettmaths.com/2013/03/29/fractions-to-percentages/">https://corbettmaths.com/2013/03/29/fractions-to-percentages/</a> <a href="https://corbettmaths.com/2013/02/15/fdp/">https://corbettmaths.com/2013/02/15/fdp/</a>	
<b>Perimeter and Area 1</b>		
<b>Perimeter</b>	<a href="https://corbettmaths.com/2012/08/02/perimeter/">https://corbettmaths.com/2012/08/02/perimeter/</a>	
<b>Area of Square Rectangle revision</b>	<a href="https://corbettmaths.com/2013/12/20/area-of-a-rectangle-video-45/">https://corbettmaths.com/2013/12/20/area-of-a-rectangle-video-45/</a>	
<b>Area of a Triangle</b>	<a href="https://corbettmaths.com/2013/12/20/area-of-a-triangle-video-49/">https://corbettmaths.com/2013/12/20/area-of-a-triangle-video-49/</a>	
<b>Composite Area - Rectangles and Triangles</b>	<a href="https://corbettmaths.com/2013/03/26/area-of-an-l-shape/">https://corbettmaths.com/2013/03/26/area-of-an-l-shape/</a> <a href="https://corbettmaths.com/2012/08/02/area-of-compound-shapes/">https://corbettmaths.com/2012/08/02/area-of-compound-shapes/</a>	
<b>Area of Rhombus &amp; Kite</b>	<a href="https://www.bbc.co.uk/bitesize/guides/ztnbmp3/revision/4">https://www.bbc.co.uk/bitesize/guides/ztnbmp3/revision/4</a>	
<b>September weekend</b>		
<b>Flexible Time for Collaborative Lessons/Revision</b>		
<b>Assessment 1</b>		
<b>October Break</b>		
<b>Unit 2</b>		
<b>Angles</b>		
<b>Complementary</b>	<a href="https://corbettmaths.com/2013/12/19/angles-right-angle-video-34/">https://corbettmaths.com/2013/12/19/angles-right-angle-video-34/</a>	

<b>Supplementary</b>	<a href="https://corbettmaths.com/2013/12/19/angles-straight-line-video-35/">https://corbettmaths.com/2013/12/19/angles-straight-line-video-35/</a>	
<b>Angles around a Point</b>	<a href="https://corbettmaths.com/2012/08/10/angles-in-a-full-circle/">https://corbettmaths.com/2012/08/10/angles-in-a-full-circle/</a>	
<b>Vertically Opposite</b>	<a href="https://corbettmaths.com/2013/03/16/vertically-opposite-angles/">https://corbettmaths.com/2013/03/16/vertically-opposite-angles/</a>	
<b>Angles in a Triangle</b>	<a href="https://corbettmaths.com/2012/08/10/angles-in-a-triangle/">https://corbettmaths.com/2012/08/10/angles-in-a-triangle/</a>	
<b>Isosceles Triangles</b>	<a href="https://corbettmaths.com/2012/08/10/angles-in-a-triangle/">https://corbettmaths.com/2012/08/10/angles-in-a-triangle/</a>	
<b>Integers</b>		
<b>Negative numbers in context</b>	<a href="https://corbettmaths.com/2013/05/15/negative-numbers-temperature/">https://corbettmaths.com/2013/05/15/negative-numbers-temperature/</a>	
<b>Adding Integers</b>	<a href="https://corbettmaths.com/2013/06/08/negatives-addition-and-subtraction-2/">https://corbettmaths.com/2013/06/08/negatives-addition-and-subtraction-2/</a>	
<b>Subtracting Integers</b>	<a href="https://corbettmaths.com/2013/06/08/negatives-addition-and-subtraction-2/">https://corbettmaths.com/2013/06/08/negatives-addition-and-subtraction-2/</a>	
<b>Multiplying and Dividing Integers</b>	<a href="https://corbettmaths.com/2012/08/20/multiplying-negative-numbers/">https://corbettmaths.com/2012/08/20/multiplying-negative-numbers/</a> <a href="https://corbettmaths.com/2012/08/20/dividing-involving-negatives/">https://corbettmaths.com/2012/08/20/dividing-involving-negatives/</a>	
<b>Coordinates</b>		
<b>Coordinates in 4 Quadrants</b>	<a href="https://corbettmaths.com/2013/04/15/coordinates/">https://corbettmaths.com/2013/04/15/coordinates/</a>	
<b>Problems and Reflection</b>	<a href="https://corbettmaths.com/2013/04/15/coordinates-and-shapes/">https://corbettmaths.com/2013/04/15/coordinates-and-shapes/</a>	
<b>Algebra 1</b>		
<b>Simplifying expressions</b>	<a href="https://corbettmaths.com/2013/12/28/collecting-like-terms-video-9/">https://corbettmaths.com/2013/12/28/collecting-like-terms-video-9/</a>	
<b>Multiplying and Dividing</b>	<a href="https://corbettmaths.com/2013/03/13/multiplying-terms/">https://corbettmaths.com/2013/03/13/multiplying-terms/</a>	
<b>Removing Brackets - Distributive Law</b>	<a href="https://corbettmaths.com/2013/12/23/expanding-brackets-video-13/">https://corbettmaths.com/2013/12/23/expanding-brackets-video-13/</a>	
<b>Removing Brackets and Simplifying</b>	<a href="https://corbettmaths.com/2013/12/23/expanding-brackets-video-13/">https://corbettmaths.com/2013/12/23/expanding-brackets-video-13/</a>	

<b>Perimeter &amp; Area 2</b>		
Area of Parallelogram	<a href="https://corbettmaths.com/2013/12/21/area-of-a-parallelogram-video-44/">https://corbettmaths.com/2013/12/21/area-of-a-parallelogram-video-44/</a>	
Area of Trapezium	<a href="https://corbettmaths.com/2012/08/02/area-of-a-trapezium-video/">https://corbettmaths.com/2012/08/02/area-of-a-trapezium-video/</a>	
Composite Areas	<a href="https://www.bbc.co.uk/bitesize/guides/z2mtyrd/revision/4">https://www.bbc.co.uk/bitesize/guides/z2mtyrd/revision/4</a> <a href="https://corbettmaths.com/2012/08/02/area-of-compound-shapes/">https://corbettmaths.com/2012/08/02/area-of-compound-shapes/</a>	
<b>Algebra 2</b>		
Revision - Solving '1-step' Equations	<a href="https://corbettmaths.com/2012/08/24/solving-equations/">https://corbettmaths.com/2012/08/24/solving-equations/</a>	
Solving Linear Equations	<a href="https://corbettmaths.com/2012/08/24/solving-equations/">https://corbettmaths.com/2012/08/24/solving-equations/</a>	
Solving Equations with Brackets	<a href="https://corbettmaths.com/2012/08/24/solving-equations/">https://corbettmaths.com/2012/08/24/solving-equations/</a>	
Christmas Break		
<b>Statistics</b>		
Mean	<a href="https://corbettmaths.com/2012/08/02/the-mean/">https://corbettmaths.com/2012/08/02/the-mean/</a>	
Median	<a href="https://corbettmaths.com/2012/08/02/the-median/">https://corbettmaths.com/2012/08/02/the-median/</a>	
Mode	<a href="https://corbettmaths.com/2013/12/21/the-mode-video56/">https://corbettmaths.com/2013/12/21/the-mode-video56/</a>	
Range	<a href="https://corbettmaths.com/2012/08/02/the-range-video/">https://corbettmaths.com/2012/08/02/the-range-video/</a>	
Organising Information	<a href="https://corbettmaths.com/2013/05/07/tally-charts-corbettmaths/">https://corbettmaths.com/2013/05/07/tally-charts-corbettmaths/</a>	
Bar Graphs	<a href="https://corbettmaths.com/2013/04/15/drawing-bar-charts/">https://corbettmaths.com/2013/04/15/drawing-bar-charts/</a>	
Line Graphs	<a href="https://www.bbc.co.uk/bitesize/guides/z7xcwmn/revision/1">https://www.bbc.co.uk/bitesize/guides/z7xcwmn/revision/1</a>	
Pie Charts	<a href="https://corbettmaths.com/2013/05/25/interpreting-pie-charts/">https://corbettmaths.com/2013/05/25/interpreting-pie-charts/</a> <a href="https://corbettmaths.com/2013/02/27/drawing-a-pie-chart/">https://corbettmaths.com/2013/02/27/drawing-a-pie-chart/</a>	
<b>Fractions</b>		
Equivalent Fractions & Simplifying	<a href="https://corbettmaths.com/2013/04/24/key-fractions-decimals-and-percentages/">https://corbettmaths.com/2013/04/24/key-fractions-decimals-and-percentages/</a> <a href="https://corbettmaths.com/2013/03/03/simplifying-fractions-2/">https://corbettmaths.com/2013/03/03/simplifying-fractions-2/</a>	

	<a href="https://www.bbc.co.uk/bitesize/clips/z4yd2hv">https://www.bbc.co.uk/bitesize/clips/z4yd2hv</a>	
<b>Improper to Mixed Number</b>	<a href="https://corbettmaths.com/2013/02/15/improper-fractions-to-mixed-numbers/">https://corbettmaths.com/2013/02/15/improper-fractions-to-mixed-numbers/</a>	
<b>Mixed Number to Improper Fraction</b>	<a href="https://corbettmaths.com/2013/02/15/mixed-numbers-to-improper-fractions/">https://corbettmaths.com/2013/02/15/mixed-numbers-to-improper-fractions/</a>	
<b>Add/Subtract Basic Fractions</b>	<a href="https://corbettmaths.com/2013/02/15/adding-fractions-same-denominator/">https://corbettmaths.com/2013/02/15/adding-fractions-same-denominator/</a>	
<b>Add/Subtract Fractions with different Denominators</b>	<a href="https://corbettmaths.com/2012/08/21/fractions-addition-and-subtraction/">https://corbettmaths.com/2012/08/21/fractions-addition-and-subtraction/</a>	
<b>Mixed Fractions with different Denominators</b>	<a href="https://corbettmaths.com/2013/02/17/ordering-fractions/">https://corbettmaths.com/2013/02/17/ordering-fractions/</a>	
<b>Subtraction Techniques</b>		
<b>February Break</b>		
<b>Flexible Time for Collaborative Lessons/Revision</b>		
<b>Assessment 2</b>		
<b>Algebra 3</b>		
<b>Evaluating Expressions</b>	<a href="https://corbettmaths.com/2012/08/20/substitution-into-expressions/">https://corbettmaths.com/2012/08/20/substitution-into-expressions/</a>	
<b>Expressions with Squares and Roots</b>	<a href="https://corbettmaths.com/2012/08/11/1336/">https://corbettmaths.com/2012/08/11/1336/</a> <a href="https://corbettmaths.com/2012/08/11/1337/">https://corbettmaths.com/2012/08/11/1337/</a> <a href="https://corbettmaths.com/2012/08/11/1338/">https://corbettmaths.com/2012/08/11/1338/</a>	
<b>Evaluating Formulae</b>	<a href="https://www.bbc.co.uk/bitesize/guides/zx9p34j/revision/4">https://www.bbc.co.uk/bitesize/guides/zx9p34j/revision/4</a>	
<b>Constructing &amp; Evaluating Formulae</b>	<a href="https://corbettmaths.com/2013/03/12/forming-algebraic-notation/">https://corbettmaths.com/2013/03/12/forming-algebraic-notation/</a> <a href="https://corbettmaths.com/2013/04/20/forming-and-solving-equations/">https://corbettmaths.com/2013/04/20/forming-and-solving-equations/</a>	
<b>Circle</b>		
<b>Introduction/Circumference Investigation</b>	<a href="https://www.bbc.co.uk/bitesize/topics/zrf3cdm/articles/zwrkpbk">https://www.bbc.co.uk/bitesize/topics/zrf3cdm/articles/zwrkpbk</a>	
<b>Calculating the Circumference</b>	<a href="https://corbettmaths.com/2013/12/21/circumference-video-60/">https://corbettmaths.com/2013/12/21/circumference-video-60/</a>	

<b>Circumference Problems</b>	<a href="https://corbettmaths.com/2012/08/02/perimeter-of-a-semi-circle/">https://corbettmaths.com/2012/08/02/perimeter-of-a-semi-circle/</a>	
<b>Area of a Circle</b>	<a href="https://corbettmaths.com/2013/12/22/area-of-a-circle-video-40-and-59/">https://corbettmaths.com/2013/12/22/area-of-a-circle-video-40-and-59/</a>	
<b>Circle Problems</b>	<a href="https://www.bbc.co.uk/bitesize/guides/zc9wxnb/revision/3">https://www.bbc.co.uk/bitesize/guides/zc9wxnb/revision/3</a>	
<b>Ratio</b>		
<b>Simplifying Ratio</b>	<a href="https://corbettmaths.com/2013/03/03/simplifying-ratio/">https://corbettmaths.com/2013/03/03/simplifying-ratio/</a>	
<b>Ratio Calculations</b>	<a href="https://corbettmaths.com/2013/05/16/ratio-given-one-quantity/">https://corbettmaths.com/2013/05/16/ratio-given-one-quantity/</a>	
<b>Sharing in a given Ratio</b>	<a href="https://corbettmaths.com/2013/03/03/ratio-sharing-the-total/">https://corbettmaths.com/2013/03/03/ratio-sharing-the-total/</a>	
<b>Volume</b>		
<b>Volume of Cube/Cuboid</b>	<a href="https://corbettmaths.com/2012/08/09/volume-of-cuboids-and-cubes/">https://corbettmaths.com/2012/08/09/volume-of-cuboids-and-cubes/</a>	
<b>Volume of a Prism</b>	<a href="https://corbettmaths.com/2013/04/20/volume-of-a-prism/">https://corbettmaths.com/2013/04/20/volume-of-a-prism/</a>	
<b>Composite Shapes</b>	<a href="https://www.bbc.co.uk/bitesize/guides/z26nb9q/revision/3">https://www.bbc.co.uk/bitesize/guides/z26nb9q/revision/3</a>	
<b>Liquid Volumes and Capacity</b>	<a href="https://corbettmaths.com/2014/01/16/metric-units-for-capacity/">https://corbettmaths.com/2014/01/16/metric-units-for-capacity/</a>	
<b>Spring Break</b>		
<b>Time</b>		
<b>Time Calculations Revision</b>	<a href="https://corbettmaths.com/2013/10/24/calculations-involving-time/">https://corbettmaths.com/2013/10/24/calculations-involving-time/</a>	
<b>Speed/Distance/Time Calculations</b>	<a href="https://corbettmaths.com/2016/01/01/speed-distance-time/">https://corbettmaths.com/2016/01/01/speed-distance-time/</a>	
<b>Half and Quarter Hour Problems</b>	<a href="https://www.bbc.co.uk/bitesize/guides/z4swxnb/revision/4">https://www.bbc.co.uk/bitesize/guides/z4swxnb/revision/4</a>	
<b>Converting Hrs/Mins into Decimal Times</b>	<a href="https://www.bbc.co.uk/bitesize/guides/z4swxnb/revision/3">https://www.bbc.co.uk/bitesize/guides/z4swxnb/revision/3</a>	
<b>Converting Decimal Times into Hrs/Mins</b>	<a href="https://www.bbc.co.uk/bitesize/guides/z3rk7ty/revision/1">https://www.bbc.co.uk/bitesize/guides/z3rk7ty/revision/1</a>	
<b>Distance/Time Graphs</b>	<a href="https://corbettmaths.com/2013/05/25/travel-graphs/">https://corbettmaths.com/2013/05/25/travel-graphs/</a>	
<b>Flexible Time for Collaborative Lessons/Revision</b>		

<b>End of S1 Assessment 3</b>		
<b>Money</b>		
<b>Wages and Salaries</b>	<a href="https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/1">https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/1</a>	
<b>Bonuses and Wage Rises</b>	<a href="https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/2">https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/2</a>	
<b>Commission</b>	<a href="https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/3">https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/3</a>	
<b>Overtime Pay</b>	<a href="https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/4">https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/4</a>	
<b>Gross pay, Net pay and Deductions</b>	<a href="https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/1">https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/1</a>	
<b>Money Week</b>		
<b>Summer Break</b>		