



# **Lanark Grammar School Mathematics Department**

## **S2 Level 3-4 Course Outline**

<b>Unit 1</b>		
<b>Skills and Understanding</b>	<b>Video</b>	
<b>Money 2</b>		
<b>Foreign Exchange</b>	<a href="https://corbettmaths.com/2016/01/03/exchange-rates/">https://corbettmaths.com/2016/01/03/exchange-rates/</a>	
<b>Best Deal</b>	<a href="https://corbettmaths.com/2013/03/26/best-buys/">https://corbettmaths.com/2013/03/26/best-buys/</a>	
<b>Personal Finance - Credit Cards, Debit Cards</b>	<a href="https://www.bbc.co.uk/bitesize/guides/z263r82/revision/3">https://www.bbc.co.uk/bitesize/guides/z263r82/revision/3</a>	
<b>Probability</b>		
<b>Revision of Probability - 2<sup>nd</sup> Level</b>	<a href="https://corbettmaths.com/2013/06/15/probability/">https://corbettmaths.com/2013/06/15/probability/</a>	
<b>Listing outcomes and events</b>	<a href="https://corbettmaths.com/2013/05/07/tree-diagrams/">https://corbettmaths.com/2013/05/07/tree-diagrams/</a> <a href="https://corbettmaths.com/2013/05/04/listing-outcomes/">https://corbettmaths.com/2013/05/04/listing-outcomes/</a>	
<b>Probability Calculations - Expected outcomes</b>	<a href="https://corbettmaths.com/2013/06/20/relative-frequency/">https://corbettmaths.com/2013/06/20/relative-frequency/</a>	
<b>Calculating probabilities - Independent events</b>	<a href="https://corbettmaths.com/2013/06/16/independent-events/">https://corbettmaths.com/2013/06/16/independent-events/</a>	
<b>Calculating probabilities - Dependent events</b>	<a href="https://corbettmaths.com/2013/06/18/conditional-probability/">https://corbettmaths.com/2013/06/18/conditional-probability/</a>	
<b>September weekend</b>		
<b>Statistics 2</b>		
<b>Revision of Bar and Line Graphs</b>	<a href="https://corbettmaths.com/2013/05/07/tally-charts-corbettmaths/">https://corbettmaths.com/2013/05/07/tally-charts-corbettmaths/</a> <a href="https://corbettmaths.com/2013/04/15/drawing-bar-charts/">https://corbettmaths.com/2013/04/15/drawing-bar-charts/</a> <a href="https://www.bbc.co.uk/bitesize/guides/z7xcwmn/revision/1">https://www.bbc.co.uk/bitesize/guides/z7xcwmn/revision/1</a>	
<b>Spreadsheets</b>		
<b>Pie-charts</b>	<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>Mean</b>	<a href="https://corbettmaths.com/2012/08/02/the-mean/">https://corbettmaths.com/2012/08/02/the-mean/</a>	
<b>Range</b>	<a href="https://corbettmaths.com/2012/08/02/the-range-video/">https://corbettmaths.com/2012/08/02/the-range-video/</a>	
<b>Median</b>	<a href="https://corbettmaths.com/2012/08/02/the-median/">https://corbettmaths.com/2012/08/02/the-median/</a>	
<b>Mode</b>	<a href="https://corbettmaths.com/2013/12/21/the-mode-video56/">https://corbettmaths.com/2013/12/21/the-mode-video56/</a>	
<b>Stem and Leaf Diagrams</b>	<a href="https://corbettmaths.com/2012/08/02/reading-stem-and-leaf-diagrams-video/">https://corbettmaths.com/2012/08/02/reading-stem-and-leaf-diagrams-video/</a>	

	<a href="https://corbettmaths.com/2012/08/02/drawing-stem-and-leaf-diagrams/">https://corbettmaths.com/2012/08/02/drawing-stem-and-leaf-diagrams/</a>	
<b>Creating a Survey</b>	<a href="https://corbettmaths.com/2013/04/20/data-handling-cycle/">https://corbettmaths.com/2013/04/20/data-handling-cycle/</a>	
<b>Flexible Time for Revision</b>		
<b>3<sup>rd</sup> End of Level Numeracy Assessment - S1&amp;S2</b>		
<b>Powers and Roots</b>		
<b>Squaring, Cubing and other powers</b>	<a href="https://corbettmaths.com/2012/08/11/1336/">https://corbettmaths.com/2012/08/11/1336/</a> <a href="https://corbettmaths.com/2012/08/20/cube-numbers/">https://corbettmaths.com/2012/08/20/cube-numbers/</a> <a href="https://corbettmaths.com/2012/08/11/1337/">https://corbettmaths.com/2012/08/11/1337/</a> <a href="https://corbettmaths.com/2012/08/20/cubing-a-number/">https://corbettmaths.com/2012/08/20/cubing-a-number/</a>	
<b>Square and cube roots</b>	<a href="https://corbettmaths.com/2012/08/11/1338/">https://corbettmaths.com/2012/08/11/1338/</a> <a href="https://corbettmaths.com/2013/03/24/cube-roots/">https://corbettmaths.com/2013/03/24/cube-roots/</a>	
<b>Multiples and Factors</b>		
<b>Multiples and LCM</b>	<a href="https://corbettmaths.com/2012/08/11/lcm-and-common-multiples/">https://corbettmaths.com/2012/08/11/lcm-and-common-multiples/</a>	
<b>Factors and HCF</b>	<a href="https://corbettmaths.com/2012/08/24/common-factors-and-hcf/">https://corbettmaths.com/2012/08/24/common-factors-and-hcf/</a>	
<b>Prime Numbers</b>	<a href="https://corbettmaths.com/2013/03/24/prime-numbers/">https://corbettmaths.com/2013/03/24/prime-numbers/</a> <a href="https://corbettmaths.com/2012/08/20/lcm-and-hcf-using-product-of-primes/">https://corbettmaths.com/2012/08/20/lcm-and-hcf-using-product-of-primes/</a>	
<b>Prime Decomposition</b>	<a href="https://corbettmaths.com/2012/08/20/product-of-primes/">https://corbettmaths.com/2012/08/20/product-of-primes/</a>	
<b>Patterns and Relationships</b>		
<b>Sequences</b>	<a href="https://corbettmaths.com/2013/11/13/describingrules/">https://corbettmaths.com/2013/11/13/describingrules/</a> <a href="https://corbettmaths.com/2012/08/20/the-nth-term-for-linear-sequences/">https://corbettmaths.com/2012/08/20/the-nth-term-for-linear-sequences/</a>	
<b>Simple Linear Patterns <math>y = ax</math></b>	<a href="https://www.bbc.co.uk/bitesize/guides/zx9p34j/revision/6">https://www.bbc.co.uk/bitesize/guides/zx9p34j/revision/6</a> <a href="https://www.bbc.co.uk/bitesize/guides/zx9p34j/revision/7">https://www.bbc.co.uk/bitesize/guides/zx9p34j/revision/7</a>	
<b>Simple Linear Graphs</b>		
<b>Linear Patterns of the form <math>y=ax\pm b</math></b>	<a href="https://corbettmaths.com/2013/11/13/patterns-and-sequences/">https://corbettmaths.com/2013/11/13/patterns-and-sequences/</a>	
<b>Graphs of Linear Patterns</b>	<a href="http://www.desmos.com">www.desmos.com</a> <a href="https://corbettmaths.com/2012/12/23/drawing-graphs-using-xy-tables/">https://corbettmaths.com/2012/12/23/drawing-graphs-using-xy-tables/</a>	
<b>October Break</b>		

<b>Fractions 2</b>		
<b>Multiplying Fractions</b>	<a href="https://corbettmaths.com/2012/08/21/multiplying-fractions-2/">https://corbettmaths.com/2012/08/21/multiplying-fractions-2/</a>	
<b>Multiplying Mixed Numbers</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>Dividing by a Fraction</b>	<a href="https://corbettmaths.com/2012/08/21/division-with-fractions/">https://corbettmaths.com/2012/08/21/division-with-fractions/</a>	
<b>Dividing by a Mixed Number</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>Angles 2</b>		
<b>Corresponding Angles</b>	<a href="https://corbettmaths.com/2013/04/04/parallel-lines-angles/">https://corbettmaths.com/2013/04/04/parallel-lines-angles/</a>	
<b>Alternate Angles</b>	<a href="https://corbettmaths.com/2013/04/04/parallel-lines-angles/">https://corbettmaths.com/2013/04/04/parallel-lines-angles/</a>	
<b>Parallel and Transversal lines - Problems</b>	<a href="https://corbettmaths.com/2013/04/04/parallel-lines-angles/">https://corbettmaths.com/2013/04/04/parallel-lines-angles/</a>	
<b>Algebra 4</b>		
<b>Revision: <math>ax \pm b = c</math> and <math>a(x \pm b) = c</math> where a, b and c are integers</b>	<a href="https://corbettmaths.com/2012/08/24/solving-equations/">https://corbettmaths.com/2012/08/24/solving-equations/</a>	
<b>Equations with variables on each side</b>	<a href="https://corbettmaths.com/2012/08/24/solving-equations-with-letters-on-both-sides/">https://corbettmaths.com/2012/08/24/solving-equations-with-letters-on-both-sides/</a>	
<b>Equations with brackets on each side</b>	<a href="https://corbettmaths.com/2012/08/24/solving-equations-with-letters-on-both-sides/">https://corbettmaths.com/2012/08/24/solving-equations-with-letters-on-both-sides/</a>	
<b>Equations involving fractions</b>	<a href="https://corbettmaths.com/2012/08/24/solving-equations/">https://corbettmaths.com/2012/08/24/solving-equations/</a>	
<b>Inequalities</b>	<a href="https://www.bbc.co.uk/bitesize/guides/zt8sgk7/revision/4">https://www.bbc.co.uk/bitesize/guides/zt8sgk7/revision/4</a> <a href="https://corbettmaths.com/2013/05/07/solving-inequalities-one-sign-corbettmaths/">https://corbettmaths.com/2013/05/07/solving-inequalities-one-sign-corbettmaths/</a> <a href="https://corbettmaths.com/2013/05/18/inequalities/">https://corbettmaths.com/2013/05/18/inequalities/</a>	
<b>Christmas Break</b>		
<b>Flexible Time for Revision</b>		
<b>Assessment 5</b>		
<b>2D Shapes - Constructions</b>		
<b>Revision of Perimeter and Area</b>	<a href="https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/2">https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/2</a> <a href="https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/3">https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/3</a>	

	<a href="https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/4">https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/4</a> <a href="https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/5">https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/5</a>	
<b>Recognising Polygons</b>	<a href="https://www.bbc.co.uk/bitesize/guides/z8w2pv4/revision/2">https://www.bbc.co.uk/bitesize/guides/z8w2pv4/revision/2</a> <a href="https://www.bbc.co.uk/bitesize/guides/z8w2pv4/revision/3">https://www.bbc.co.uk/bitesize/guides/z8w2pv4/revision/3</a>	
Drawing triangles SAS	<a href="https://corbettmaths.com/2013/03/28/constructing-sas-triangles/">https://corbettmaths.com/2013/03/28/constructing-sas-triangles/</a>	
Drawing triangles ASA	<a href="https://corbettmaths.com/2013/03/29/constructing-asa-triangles/">https://corbettmaths.com/2013/03/29/constructing-asa-triangles/</a>	
Drawing Triangles SSS	<a href="https://corbettmaths.com/2013/03/26/constructing-sss-triangles/">https://corbettmaths.com/2013/03/26/constructing-sss-triangles/</a>	
Constructing Regular Polygons	<a href="https://corbettmaths.com/2012/08/24/constructing-equilateral-triangles-and-60-degree-angles/">https://corbettmaths.com/2012/08/24/constructing-equilateral-triangles-and-60-degree-angles/</a> <a href="https://corbettmaths.com/2013/03/26/hexagon-inscribed-within-a-circle/">https://corbettmaths.com/2013/03/26/hexagon-inscribed-within-a-circle/</a> <a href="https://corbettmaths.com/2012/08/10/angles-in-polygons/">https://corbettmaths.com/2012/08/10/angles-in-polygons/</a>	
<b>Proportion</b>		
Revision - Sharing in a Ratio	<a href="https://corbettmaths.com/2013/03/03/ratio-sharing-the-total/">https://corbettmaths.com/2013/03/03/ratio-sharing-the-total/</a>	
Proportion - Finding 1 unit.	<a href="https://corbettmaths.com/2018/11/28/unitary-method-video/">https://corbettmaths.com/2018/11/28/unitary-method-video/</a>	
Direct Proportion Problems	<a href="https://corbettmaths.com/2013/05/16/recipes/">https://corbettmaths.com/2013/05/16/recipes/</a> <a href="https://corbettmaths.com/2013/04/04/direct-proportion/">https://corbettmaths.com/2013/04/04/direct-proportion/</a>	
Direct Proportion - Line Graphs		
February Break		
<b>Symmetry</b>		
Revision of Line Symmetry	<a href="https://corbettmaths.com/2013/05/15/line-symmetry/">https://corbettmaths.com/2013/05/15/line-symmetry/</a>	
Rotational Symmetry - Identifying Order	<a href="https://corbettmaths.com/2012/08/10/rotational-symmetry/">https://corbettmaths.com/2012/08/10/rotational-symmetry/</a>	
Creating Shapes with Rotational Symmetry	<a href="https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/8">https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/8</a>	
Translation and Tiling	<a href="https://corbettmaths.com/2013/03/29/finding-the-mirror-line/">https://corbettmaths.com/2013/03/29/finding-the-mirror-line/</a> <a href="https://corbettmaths.com/2012/08/02/tessellations-video/">https://corbettmaths.com/2012/08/02/tessellations-video/</a>	
<b>Scale Drawings and Bearings</b>		
Enlargement and Reduction	<a href="https://corbettmaths.com/2012/08/19/enlargements/">https://corbettmaths.com/2012/08/19/enlargements/</a>	
Calculating lengths from Scale Drawings	<a href="https://corbettmaths.com/2013/11/13/maps-scales/">https://corbettmaths.com/2013/11/13/maps-scales/</a>	
Creating Scale Drawings - Shapes	<a href="https://www.bbc.co.uk/bitesize/guides/zpwycdm/revision/2">https://www.bbc.co.uk/bitesize/guides/zpwycdm/revision/2</a>	

<b>3 Figure Bearings - Drawing</b>	<a href="https://corbettmaths.com/2013/03/27/bearings/">https://corbettmaths.com/2013/03/27/bearings/</a> <a href="https://corbettmaths.com/2018/08/31/back-bearings/">https://corbettmaths.com/2018/08/31/back-bearings/</a>	
<b>Creating Scale Drawings - Using Bearings</b>	<a href="https://www.bbc.co.uk/bitesize/guides/z7hk7ty/revision/1">https://www.bbc.co.uk/bitesize/guides/z7hk7ty/revision/1</a> <a href="https://www.bbc.co.uk/bitesize/guides/z7hk7ty/revision/2">https://www.bbc.co.uk/bitesize/guides/z7hk7ty/revision/2</a>	
<b>Flexible Time for Revision</b>		
<b>Assessment 6</b>		
<b>Spring Break</b>		
<b>Travel Week</b>		
<b>Change of Timetable - S3 Classes</b>		
<b>Summer Break</b>		