



Lanark Grammar School Mathematics Department

S3 Level 3-4 Course Outline

Unit 1		
Skills and Understanding	Video	
Money 2		
Foreign Exchange	https://corbettmaths.com/2016/01/03/exchange-rates/	
Best Deal	https://corbettmaths.com/2013/03/26/best-buys/	
Personal Finance - Credit Cards, Debit Cards	https://www.bbc.co.uk/bitesize/guides/z263r82/revision/3	
Probability		
Revision of Probability - 2nd Level	https://corbettmaths.com/2013/06/15/probability/	
Listing outcomes and events	https://corbettmaths.com/2013/05/07/tree-diagrams/ https://corbettmaths.com/2013/05/04/listing-outcomes/	
Probability Calculations - Expected outcomes	https://corbettmaths.com/2013/06/20/relative-frequency/	
Calculating probabilities - Independent events	https://corbettmaths.com/2013/06/16/independent-events/	
Calculating probabilities - Dependent events	https://corbettmaths.com/2013/06/18/conditional-probability/	
September weekend		
Statistics 2		
Revision of Bar and Line Graphs	https://corbettmaths.com/2013/05/07/tally-charts-corbettmaths/ https://corbettmaths.com/2013/04/15/drawing-bar-charts/ https://www.bbc.co.uk/bitesize/guides/z7xcwmn/revision/1	
Spreadsheets		
Pie-charts	https://corbettmaths.com/2013/05/25/interpreting-pie-charts/ https://corbettmaths.com/2013/02/27/drawing-a-pie-chart/	
Mean	https://corbettmaths.com/2012/08/02/the-mean/	
Range	https://corbettmaths.com/2012/08/02/the-range-video/	
Median	https://corbettmaths.com/2012/08/02/the-median/	
Mode	https://corbettmaths.com/2013/12/21/the-mode-video56/	
Stem and Leaf Diagrams	https://corbettmaths.com/2012/08/02/reading-stem-and-leaf-diagrams-video/	

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

Fractions 2		
Multiplying Fractions	https://corbettmaths.com/2012/08/21/multiplying-fractions-2/	
Multiplying Mixed Numbers	https://corbettmaths.com/2013/02/15/mixed-numbers-to-improper-fractions/	
Dividing by a Fraction	https://corbettmaths.com/2012/08/21/division-with-fractions/	
Dividing by a Mixed Number	https://corbettmaths.com/2013/02/15/mixed-numbers-to-improper-fractions/	
Angles 2		
Corresponding Angles	https://corbettmaths.com/2013/04/04/parallel-lines-angles/	
Alternate Angles	https://corbettmaths.com/2013/04/04/parallel-lines-angles/	
Parallel and Transversal lines - Problems	https://corbettmaths.com/2013/04/04/parallel-lines-angles/	
Algebra 4		
Revision: $ax \pm b = c$ and $a(x \pm b) = c$ where a, b and c are integers	https://corbettmaths.com/2012/08/24/solving-equations/	
Equations with variables on each side	https://corbettmaths.com/2012/08/24/solving-equations-with-letters-on-both-sides/	
Equations with brackets on each side	https://corbettmaths.com/2012/08/24/solving-equations-with-letters-on-both-sides/	
Equations involving fractions	https://corbettmaths.com/2012/08/24/solving-equations/	
Inequalities	https://www.bbc.co.uk/bitesize/guides/zt8sgk7/revision/4 https://corbettmaths.com/2013/05/07/solving-inequalities-one-sign-corbettmaths/ https://corbettmaths.com/2013/05/18/inequalities/	
Christmas Break		
Flexible Time for Revision		
Assessment 5		
2D Shapes - Constructions		
Revision of Perimeter and Area	https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/2 https://www.bbc.co.uk/bitesize/guides/z2ctyrd/revision/3	

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

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