



Lanark Grammar School Mathematics Department

S2 Level 3 Course Outline

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

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

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

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

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

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

Assessment 3		
Money		
Wages and Salaries	https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/1	
Bonuses and Wage Rises	https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/2	
Commission	https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/3	
Overtime Pay	https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/4	
Gross pay, Net pay and Deductions	https://www.bbc.co.uk/bitesize/guides/zdq39j6/revision/1	
Summer Break		