



# **Lanark Grammar School Mathematics Department**

## **S2 Level 2-3 Course Outline**

Unit 1		
<b>Skills and Understanding</b>	<b>Video</b>	
<b>Whole Numbers, Decimals and Order of Operations</b>		
<b>Add/Subtract/Multiply/Divide</b>	<a href="https://corbettmaths.com/2013/12/19/addition-video-6/">https://corbettmaths.com/2013/12/19/addition-video-6/</a> <a href="https://corbettmaths.com/2013/03/28/adding-decimals/">https://corbettmaths.com/2013/03/28/adding-decimals/</a> <a href="https://corbettmaths.com/2013/03/28/subtracting-decimals/">https://corbettmaths.com/2013/03/28/subtracting-decimals/</a> <a href="https://corbettmaths.com/2012/08/21/dividing-decimals-by-whole-numbers/">https://corbettmaths.com/2012/08/21/dividing-decimals-by-whole-numbers/</a> <a href="https://corbettmaths.com/2013/12/28/division-video-98/">https://corbettmaths.com/2013/12/28/division-video-98/</a>	
<b>Calculator techniques</b>	<a href="https://corbettmaths.com/2013/02/15/use-of-a-calculator/">https://corbettmaths.com/2013/02/15/use-of-a-calculator/</a>	
<b>Mental Calculations</b>	<a href="https://www.bbc.co.uk/bitesize/topics/zfr3nrd/articles/zyhdfcw">https://www.bbc.co.uk/bitesize/topics/zfr3nrd/articles/zyhdfcw</a>	
<b>Multiply Whole Numbers and Decimals by Multiples of 10/100/1000 etc</b>	<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>	
<b>Divide by Whole Numbers and Decimals Multiples of 10/100/100 etc</b>	<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>	
<b>Long Multiplication</b>	<a href="https://corbettmaths.com/2013/02/15/multiplication-traditional/">https://corbettmaths.com/2013/02/15/multiplication-traditional/</a>	
<b>Multiplying and Dividing a Decimal by a single digit</b>	<a href="https://corbettmaths.com/2012/08/21/dividing-decimals-by-whole-numbers/">https://corbettmaths.com/2012/08/21/dividing-decimals-by-whole-numbers/</a>	
<b>Order of Operations 'BODMAS'</b>	<a href="https://corbettmaths.com/2013/06/08/order-of-operations/">https://corbettmaths.com/2013/06/08/order-of-operations/</a>	
<b>Symmetry</b>		
<b>Line Symmetry - Identifying</b>	<a href="https://corbettmaths.com/2013/05/15/line-symmetry/">https://corbettmaths.com/2013/05/15/line-symmetry/</a>	
<b>Line Symmetry - Completing shapes/patters</b>	<a href="https://www.bbc.co.uk/bitesize/clips/ztg7tfr">https://www.bbc.co.uk/bitesize/clips/ztg7tfr</a>	
<b>Time</b>		
<b>12 and 24 hour time</b>	<a href="https://www.bbc.co.uk/bitesize/guides/z3rk7ty/revision/2">https://www.bbc.co.uk/bitesize/guides/z3rk7ty/revision/2</a> <a href="https://www.youtube.com/watch?v=RXntcynrzQ">https://www.youtube.com/watch?v=RXntcynrzQ</a>	

Fractions of an Hour	<a href="https://www.bbc.co.uk/bitesize/guides/z3rk7ty/revision/1">https://www.bbc.co.uk/bitesize/guides/z3rk7ty/revision/1</a>	
Interpreting Timetables	<a href="https://corbettmaths.com/2012/08/10/timetables/">https://corbettmaths.com/2012/08/10/timetables/</a>	
Time Calculations across hours	<a href="https://corbettmaths.com/2013/10/24/calculations-involving-time/">https://corbettmaths.com/2013/10/24/calculations-involving-time/</a>	
Calculating Time - Using Simple Speed and Distance	** First 2 minutes only of the video are required. <a href="https://corbettmaths.com/2016/01/01/speed-distance-time/">https://corbettmaths.com/2016/01/01/speed-distance-time/</a>	
<b>Statistics</b>		
Tables - Organising Data and Frequency Tables	<a href="https://corbettmaths.com/2013/05/07/tally-charts-corbettmaths/">https://corbettmaths.com/2013/05/07/tally-charts-corbettmaths/</a>	
Bar Graphs, Line Graphs, Pie Charts	<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> <a href="https://corbettmaths.com/2013/05/25/interpreting-pie-charts/">https://corbettmaths.com/2013/05/25/interpreting-pie-charts/</a>	
Probability	<a href="https://www.bbc.co.uk/bitesize/topics/zfr3nrd/articles/zqpxmnb">https://www.bbc.co.uk/bitesize/topics/zfr3nrd/articles/zqpxmnb</a> <a href="https://corbettmaths.com/2013/05/12/probability-scale/">https://corbettmaths.com/2013/05/12/probability-scale/</a> <a href="https://corbettmaths.com/2013/06/15/probability/">https://corbettmaths.com/2013/06/15/probability/</a>	
September weekend		
<b>Flexible Time for Collaborative Lessons/Revision</b>		
<b>Assessment 1</b>		
October Break		
<b>Unit 2</b>		
<b>Algebra</b>		
Number Machines/Functions	<a href="https://corbettmaths.com/2017/09/25/function-machines/">https://corbettmaths.com/2017/09/25/function-machines/</a>	
Simple Equations	<a href="https://corbettmaths.com/2013/03/13/algebraic-notation/">https://corbettmaths.com/2013/03/13/algebraic-notation/</a> <a href="https://www.bbc.co.uk/bitesize/clips/zx8hyrd">https://www.bbc.co.uk/bitesize/clips/zx8hyrd</a>	
Evaluating Simple Expressions	<a href="https://corbettmaths.com/2013/03/12/forming-algebraic-notation/">https://corbettmaths.com/2013/03/12/forming-algebraic-notation/</a>	
<b>Angles</b>		

<b>Types of Angle - Acute, Obtuse, Straight and Reflex</b>	<a href="https://corbettmaths.com/2012/08/10/types-of-angle/">https://corbettmaths.com/2012/08/10/types-of-angle/</a>	
<b>Naming Angles using 3 letters</b>	<a href="https://www.youtube.com/watch?v=AuizRpeJMhw">https://www.youtube.com/watch?v=AuizRpeJMhw</a>	
<b>Measuring &amp; Drawing Angles</b>	<a href="https://corbettmaths.com/2013/03/05/measuring-angles/">https://corbettmaths.com/2013/03/05/measuring-angles/</a> <a href="https://corbettmaths.com/2013/03/04/drawing-angles/">https://corbettmaths.com/2013/03/04/drawing-angles/</a>	
<b>Complementary Angles</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 Angles</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>Bearings - 8 Compass Points</b>	<a href="https://www.youtube.com/watch?v=io5sLXsnm3A">https://www.youtube.com/watch?v=io5sLXsnm3A</a>	
<b>Perimeter and Area</b>		
<b>Units of Length</b>	<a href="https://corbettmaths.com/2014/01/16/metric-units-for-length/">https://corbettmaths.com/2014/01/16/metric-units-for-length/</a>	
<b>Perimeter</b>	<a href="https://corbettmaths.com/2012/08/02/perimeter/">https://corbettmaths.com/2012/08/02/perimeter/</a>	
<b>Area of Squares and Rectangles</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 Right Angled Triangle - Using formula</b>	<a href="https://www.bbc.co.uk/bitesize/topics/zrwkgwx/articles/zsqxfcw">https://www.bbc.co.uk/bitesize/topics/zrwkgwx/articles/zsqxfcw</a> <a href="https://www.bbc.co.uk/bitesize/clips/zvhcd2p">https://www.bbc.co.uk/bitesize/clips/zvhcd2p</a>	
<b>Fractions and Percentages</b>		
<b>Simplifying Fractions</b>	<a href="https://corbettmaths.com/2013/03/03/simplifying-fractions-2/">https://corbettmaths.com/2013/03/03/simplifying-fractions-2/</a>	
<b>Ordering Fractions - Common Denominator</b>	<a href="https://www.bbc.co.uk/bitesize/clips/zbp4wmn">https://www.bbc.co.uk/bitesize/clips/zbp4wmn</a> <a href="https://www.bbc.co.uk/bitesize/clips/z4yd2hv">https://www.bbc.co.uk/bitesize/clips/z4yd2hv</a>	
<b>Fractions and Percentages - Equivalence</b>	<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>	
<b>Simple Fractions of a Quantity</b>	<a href="https://corbettmaths.com/2012/08/20/fractions-of-amounts/">https://corbettmaths.com/2012/08/20/fractions-of-amounts/</a>	
<b>Simple Percentages of a Quantity</b>	<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>	
<b>Christmas Break</b>		
<b>Multiples and Factors</b>		

<b>Times tables - Revision</b>	<a href="https://corbettmaths.com/2015/12/10/times-tables/">https://corbettmaths.com/2015/12/10/times-tables/</a>	
<b>Multiples</b>	<a href="https://corbettmaths.com/2012/08/11/1335/">https://corbettmaths.com/2012/08/11/1335/</a>	
<b>Factors</b>	<a href="https://corbettmaths.com/2012/08/24/factors/">https://corbettmaths.com/2012/08/24/factors/</a>	
<b>2D and 3D Shapes</b>		
<b>Vocabulary Revision - Edge, Vertex, Base, Angle etc</b>	<a href="https://corbettmaths.com/2013/12/20/names-of-2d-shapes-video-1/">https://corbettmaths.com/2013/12/20/names-of-2d-shapes-video-1/</a>	
<b>Quadrilaterals</b>	<a href="https://corbettmaths.com/2013/12/21/names-of-quadrilaterals-video-2/">https://corbettmaths.com/2013/12/21/names-of-quadrilaterals-video-2/</a>	
<b>3D Shapes</b>	<a href="https://corbettmaths.com/2013/12/23/names-of-3d-shapes-video-3/">https://corbettmaths.com/2013/12/23/names-of-3d-shapes-video-3/</a>	
<b>Edges, Faces, Vertices</b>	<a href="https://corbettmaths.com/2013/12/27/edges-face-vertices-video-5/">https://corbettmaths.com/2013/12/27/edges-face-vertices-video-5/</a>	
<b>Vocabulary - Diameter, Circumference, Radius</b>	<a href="https://www.bbc.co.uk/bitesize/topics/zb84382/articles/z8c7qty">https://www.bbc.co.uk/bitesize/topics/zb84382/articles/z8c7qty</a>	
<b>February Break</b>		
<b>Flexible Time for Collaborative Lessons/Revision</b>		
<b>Assessment 2</b>		
<b>Percentages</b>		
<b>Revision - Percentage of an amount</b>	<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>	
<b>Percentage Increase</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>Percentage Decrease</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>Percentages using 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>Patterns</b>		
<b>Extending a basic sequence</b>	<a href="https://corbettmaths.com/2013/11/13/missingterms/">https://corbettmaths.com/2013/11/13/missingterms/</a>	

<b>Square Numbers</b>	<a href="https://corbettmaths.com/2012/08/11/1336/">https://corbettmaths.com/2012/08/11/1336/</a>	
<b>Triangular Numbers</b>	<a href="https://corbettmaths.com/2013/03/31/triangular-numbers/">https://corbettmaths.com/2013/03/31/triangular-numbers/</a>	
<b>Fibonacci Sequence</b>	<a href="https://corbettmaths.com/2019/03/27/fibonacci-sequences/">https://corbettmaths.com/2019/03/27/fibonacci-sequences/</a>	
<b>Basic Linear Patters from Diagrams</b>	<a href="https://corbettmaths.com/2013/11/13/patterns-and-sequences/">https://corbettmaths.com/2013/11/13/patterns-and-sequences/</a>	
<b>Extending a Table - Basic Linear Patterns</b>	<a href="https://corbettmaths.com/2013/11/13/patterns-and-sequences/">https://corbettmaths.com/2013/11/13/patterns-and-sequences/</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>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>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>	

Money Week		
Summer Break		