Out of Classroom Curriculum - Year 11 Maths

- 1. Find the correct week commencing row.
- 2. Find today's day There are up to 3 different lessons in each day you won't run out of work.
- 3. Chose a lesson hold ctrl and click the chosen link.
 - a. If you don't recognise the work, it appears too difficult or the link doesn't load;
 - i. Try another task look at the previous/next lesson or look at other days.
- 4. Some lessons have links to PowerPoints and other resources beneath the video and/or Starter Quiz (LSQ)
- 5. Complete any starter quizzes.
 - a. Write the question down
 - b. Write your answer down
 - c. Mark your answers and write down any corrections (using your purple pen)
- 6. Watch the videos and take notes in your learning booklet.
- 7. Pause if/when instructed to do so to answer questions or respond.
- 8. Complete and move onto the next lesson

Week	Lesson	Sets 1 to 3 Hold ctrl and click	Sets 4 and 5 Hold ctrl and click	Sets 6 to 9 Hold ctrl and click
	Monday	1.0935 Expanding Double and Triple Brackets 2.0968 Expanding Double Brackets: a=1, a>1	1. Finding the Length of a Line from Tiled Squares 2. Right angled Triangles and Tiled Squares 3. Pythagoras: Finding Right-Angled Triangles	Mayan Numbers 0037 Powers and Roots 0611 Powers and Roots
	Tuesday	1.0957 Quadratic Sequences 1 2.1105 Quadratic Sequences 2	1.Generalising Pythagoras Theorem 2.Know and Understand Pythagoras Theorem 3.Pythagorean Triples	 Indices Index Notation
1	Wednesday	1.0969 Factorising Quadratics 1 2.0970 Factorising Quadratics 2	1. <u>0550 Pythagoras 1</u> 2. <u>0551 Pythagoras 2</u>	1.Laws of Indices 2.Index Laws
	Thursday	1.0973 Solving Quadratics 1 2.0974 Solving Quadratics 2	1.0473 Pythagoras Theorem 1 2.0474 Pythagoras Theorem 2	1.Base 10 and Base 5 2.0101 Multiplication and Division by Powers of 10 3.0883 Use of Index Notation for Powers of 10 in Calculations
	Friday	GCSE Expanding and Factorising Quadratics Questions GCSE Expanding and Factorising Quadratics Solutions	1.1071 Pythagoras Theorem 3 2.1072 Pythagoras Theorem 4	0987 Laws of Indices for Multiplication
	Monday	GCSE Solving Quadratics Questions GCSE Solving Quadratics Solutions	1073 Pythagoras Theorem 5	0988 Laws of Indices for Division
	Tuesday	GCSE Quadratic Graphs Questions GCSE Quadratic Graphs Solutions	Pythagoras Exam Questions	1.Indices and Power of Zero 2.0989 Zero and Negative Indices
	Wednesday	1.Circle Theorems 1	1.GCSE Pythagoras 1 Questions	1. Negative Indices



2		Angles at the Centre and Circumference	2.GCSE Pythagoras 1 Solutions	2.0989 Zero and Negative Indices
	Thursday	1.Circle Theorems 2 2.Angles in a Semi-Circle	1.GCSE Pythagoras 2 Questions 2.GCSE Pythagoras 2 Solutions	Fractional Indices
	Friday	1. Circle Theorems 3 2. Angles in the same Segment	1.Right-Angled Trigonometry 1 2.Right-Angled Trigonometry 2	1.0759 Circles: Naming Parts of a Circle 2.Know the Parts of a Circle 3.Parts of a Circle
	Monday	1. <u>Circle Theorems 4</u>2. <u>Angles in a Cyclic Quadrilateral</u>	Right-Angled Trigonometry 3	1. <u>0760 Area of a Circle</u> 2. <u>Area of Circles</u>
	Tuesday	1.Circle Theorems 5 2.Tangent Perpendicular to Radii	1.Trigonometry 1 2.Trigonometry 2	1. Area and Circumference of Circles 12. Area and Circumference of Circles 23. Area and Circumference of Circles 3
3	Wednesday	1.Circle Theorems 6 2.The Alternate Segment Theory	1. Trigonometry 3 2. Trigonometry 4 3. Trigonometry 5	1.0761 Circumference and Area of Circles 2.Circumference of Circles
	Thursday	1.Equation of a Circle 1 2.Bisector of the Chord	GCSE Trigonometry 1 Questions GCSE Trigonometry 1 Solutions	1.0763 Semi and Quarter Circles 2.Semi-Circles and Quarter Circles
	Friday	1.Equation of a Circle 2 2.Mixed Circle Theorem Problems	GCSE Trigonometry 2 Questions GCSE Trigonometry 2 Solutions	1. <u>0764 Arc Lengths</u> 2. <u>Find the Arc Length</u>
	Monday	GCSE Circle Theorems 1 Questions GCSE Circle Theorems 1 Solutions	1.Construct Triangles 2.Construct a Perpendicular Bisector	1.0765 Area of Sectors 2.Area of a Sector 1 3.Area of Sector 2
	Tuesday	GCSE Circle Theorems 2 Questions GCSE Circle Theorems 2 Solutions	1.Perpendicular Bisector from Point to a Line	2.0851 Area of Circles and Sectors 3.Radius from Sector Area
4	Wednesday	GCSE Proof of Circle Theorems Qs GCSE Proof of Circle Theorems Ss	Construct an Angle Bisector	0851 Circumference and Arc Length
	Thursday	 Right-Angled Trigonometry 2 Right-Angled Trigonometry 3 	1. Constructions and Loci 1 2. Constructions and Loci 2	Surface Area of Cylinders
	Friday	 Trigonometry 2 Trigonometry 3 	1.Loci Around a Point 2.Equidistant from Two Points	1. Volume 1 2. Volume 2 3. Volume 3
	Monday	 Trigonometry 4 Trigonometry 5 	Loci and Construction Questions Loci and Construction Solutions	1. Volume of Cylinders 2. Volume of Cones
	Tuesday	GCSE Trigonometry 1 Questions GCSE Trigonometry 1 Solutions	Loci Questions Loci Solutions	1. Volume of Spheres 2. Volume of Hemisphere
5	Wednesday	GCSE Trigonometry 2 Questions GCSE Trigonometry 2 Solutions	Constructions Questions Constructions Solutions	1.Similar Triangles 2.0819 Congruent Triangles
	Thursday	GCSE Trigonometric Graphs Questions 1 GCSE Trigonometric Graphs Solutions 1	Similar Triangles 2.0819 Congruent Triangles	1.0859 Similar Shapes 1 2.0570 Similar Shapes 2
	Friday	GCSE Trigonometric Graphs Questions 2	1.0859 Similar Shapes 1 2.0570 Similar Shapes 2	1. <u>1019 Similar Shapes 3</u> 2. <u>1100 Similar Shapes 4</u>

		GCSE Trigonometric Graphs Solutions 2		3.1101 Similar Shapes 5
	Monday	1. 0788 Changing the Subject 1 2. 0951 Changing the Subject 2 1007 Changing the Subject 3	1.1019 Similar Shapes 3 2.1100 Similar Shapes 4 3.1101 Similar Shapes 5	1.0820 Similar Shapes – Finding the Scale Factor 2.0821 Similar Shapes – Using the Scale Factor
6	Tuesday	 1. 1007 Changing the Subject 3 2. 1008 Changing the Subject 4 1009 Changing the Subject 5 	 1.0820 Similar Shapes – Finding the Scale Factor 2.0821 Similar Shapes – Using the Scale Factor 3.1309 Scale Factor Problems 	GCSE Similar Shapes (Length) Questions GCSE Similar Shapes (Length) Questions
	Wednesday	 Rearrange and Solve Equations 1009 Changing the Subject 5 Rearrange and Solve Equations 	GCSE Similar Shapes (Length) Questions GCSE Similar Shapes (Length) Questions	GCSE Similar Shapes (Area and Volume) Questions GCSE Similar Shapes (Area and Volume) Questions
	Thursday	GCSE Rearranging Equations Questions GCSE Rearranging Equations Solutions	GCSE Similar Shapes (Area and Volume) Questions GCSE Similar Shapes (Area and Volume) Questions	 Collecting Like Terms 1 Collecting Like-Terms 2
	Friday	 1. 1079 Algebraic Fractions 1 2. Adding Algebraic Fractions Solving by Adding Algebraic Fractions 	Design a Questionnaire	Collecting Like-Terms 3
	Monday	1. 1080 Algebraic Fractions 22. Subtract Algebraic FractionsSolving by Subtracting Algebraic Fractions	Sampling Methods 1.Sampling Methods 2.1033 Sampling: Stratified and Capture-Recapture	 Forming Simple Equations Form and Solve Equations 1
	Tuesday	 1. 1081 Algebraic Fractions 3 2. Write the Sum of Two Algebraic Fractions 3. Write the Difference of Two Algebraic Fractions 	1. Stratified Sampling 2. Capture Recapture GCSE Capture Recapute Questions GCSE Capture Recapture Solutions	Form and Solve Equations 2
7 & 8	Wednesday	GCSE Algebraic Fractions Questions 1 GCSE Algebraic Fractions Solutions 1	1.0917 Cumulative Frequency Tables 2.Plot a Cumulative Frequency Graph	 Solve Simple Equations Using Inverse Operations Using Inverse Proportion
	Thursday	GCSE Algebraic Fractions Questions 2 GCSE Algebraic Fractions Solutions 2	1.Cumulative Frequency: Interquartile Range 2.Quartiles from a Data Set	 Solving 1-Step Linear Equations 1 Solving 1-Step Linear Equations 2
	Friday	1.1039 Adding and Multiplying Surds 2.Adding Surds 3.Subtracting Surds	1.GCSE Cumulative Frequency Questions 2.GCSE Cumulative Frequency Solutions	Solving 1-Step Linear Equations 3

	1.1060 Algebraic Proof 1 2.1061 Algebraic Proof 2	3.0969 Factorising Quadratics 1 4.0970 Factorising Quadratics 2	 1. 1009 Changing the Subject 5 2. Rearrange and Solve Equations
	1.Prove by Counter Example 2.Odd and Even Number Proofs	3.0973 Solving Quadratics 1 4.0974 Solving Quadratics 2	 1. 1009 Changing the Subject 5 2. Rearrange and Solve Equations
Additional Content	1. Prove an Expression will be the Multiple of a Given Number 2. Consecutive Number Proofs	GCSE Expanding and Factorising Quadratics Questions GCSE Expanding and Factorising Quadratics Solutions	Solve Simultaneous Equations 1
	GCSE Proof Questions 1 GCSE Proof Solutions 1	GCSE Solving Quadratics Questions GCSE Solving Quadratics Solutions	 Solving Simultaneous Equations 2 Solve Simultaneous Equations 3
	GCSE Proof Questions 2 GCSE Proof Solutions 2	GCSE Quadratic Graphs Questions GCSE Quadratic Graphs Solutions	 Solving Simultaneous Equations 4 Solving Simultaneous Equations 5