Remote Curriculum

Year 11 Maths

How it Works:

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

Week Commencing	Week	Lesson	Sets 1 to 3 **Hold ctrl and click**	Set 4 **Hold ctrl and click**	Set 5 **Hold ctrl and click**
15/4/24	B	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	1. Mayan Numbers 2. 0037 Powers and Roots 3. 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	1. Indices 2. Index Notation
		Wednesday	1. 0969 Factorising Quadratics 1 2. 0970 Factorising Quadratics 2	1. 0550 Pythagoras 1 2. 0551 Pythagoras 2	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	1. 1071 Pythagoras Theorem 3 2. 1072 Pythagoras Theorem 4	0987 Laws of Indices for Multiplication

			GCSE Expanding and Factorising Quadratics Solutions		
22/4/24	A	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 2.Angles at the Centre and Circumference	1.GCSE Pythagoras 1 Questions 2.GCSE Pythagoras 1 Solutions	1.Negative Indices 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
29/4/24	B	Monday	1.Circle Theorems 4 2.Angles in a Cyclic Quadrilateral	Right-Angled Trigonometry 3	1.0760 Area of a Circle 2.Area of Circles
		Tuesday	1.Circle Theorems 5 2.Tangent Perpendicular to Radii	1.Trigonometry 1 2.Trigonometry 2	1.Area and Circumference of Circles 1 2.Area and Circumference of Circles 2 3.Area and Circumference of Circles 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	1.0764 Arc Lengths 2.Find the Arc Length
6/5/24	A	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
		Wednesday	GCSE Proof of Circle Theorems Qs GCSE Proof of Circle Theorems Ss	Construct an Angle Bisector	0851 Circumference and Arc Length
		Thursday	1. Right-Angled Trigonometry 2 2. Right-Angled Trigonometry 3	1.Constructions and Loci 1 2.Constructions and Loci 2	Surface Area of Cylinders
		Friday	1. Trigonometry 2 2. Trigonometry 3	1.Loci Around a Point 2.Equidistant from Two Points	1.Volume 1 2.Volume 2 3.Volume 3
13/5/24	B	Monday	1. Trigonometry 4 2. 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
		Wednesday	GCSE Trigonometry 2 Questions	Constructions Questions	1.Similar Triangles

			GCSE Trigonometry 2 Solutions	Constructions Solutions	2.0819 Congruent Triangles
		Thursday	GCSE Trigonometric Graphs Questions 1 GCSE Trigonometric Graphs Solutions 1	1.Similar Triangles 2.0819 Congruent Triangles	1.0859 Similar Shapes 1 2.0570 Similar Shapes 2
		Friday	GCSE Trigonometric Graphs Questions 2 GCSE Trigonometric Graphs Solutions 2	1.0859 Similar Shapes 1 2.0570 Similar Shapes 2	1.1019 Similar Shapes 3 2.1100 Similar Shapes 4 3.1101 Similar Shapes 5
20/5/24	A	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
		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	1. Rearrange and Solve Equations 2. 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	1. Collecting Like Terms 1 2. 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
3/6/24	B	Monday	1. 1080 Algebraic Fractions 2 2. Subtract Algebraic Fractions Solving by Subtracting Algebraic Fractions	1.Sampling Methods 2.1033 Sampling: Stratified and Capture-Recapture	1. Forming Simple Equations 2. 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
		Wednesday	GCSE Algebraic Fractions Questions 1 GCSE Algebraic Fractions Solutions 1	1.0917 Cumulative Frequency Tables 2.Plot a Cumulative Frequency Graph	1. Solve Simple Equations Using Inverse Operations 2. 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	1. Solving 1-Step Linear Equations 1 2. Solving 1-Step Linear Equations 2
		Friday	1.1039 Adding and Multiplying Surds 2.Adding Surds	1.GCSE Cumulative Frequency Questions	Solving 1-Step Linear Equations 3

			3. Subtracting Surds	2. GCSE Cumulative Frequency Solutions	
10/6/24	A	Monday	1. 1123 Multiplying with Surds 2. Multiplying Surds	Plot a Box Plot	1. Solving 2-Step Linear Equations 1 2. Solving 2-Step Linear Equations 2
		Tuesday	1. 1113 Multiplying with Surds (Expanding Brackets) 2. Multiplying Surds with Brackets	GCSE Box Plots Questions 1 GCSE Box Plots Solutions 1	Solving 2-Step Linear Equations 3
		Wednesday	1. Dividing Surds 1 2. Dividing Surds 2	GCSE Cumulative Frequency and Box Plots Questions GCSE Cumulative Frequency and Box Plots Solutions	1. X on Both Sides 1.1 2. X on Both Sides 2.1
		Thursday	1. 1040 Surds: Rationalising the Denominator 1 2. Rationalising Surds 1	Plot a Histogram	X on Both Sides 3.1
		Friday	1. 1041 Surds: Rationalising the Denominator 2 2. Rationalising Surds 2	1. Find Frequency from a Histogram 2. Find Median from a Histogram 3. Probabilities from a Histogram	1. Expand Single Brackets 2. Expand Single Brackets 2
17/6/24	B	Monday	1. 1126 Simplifying Surds 2. Simplify Simple Surds	GCSE Histogram Questions 1 GCSE Histogram Solutions 1	Expand Single Brackets 3
		Tuesday	1. Simplify a Surd in the Form a√b 2. Write a√b in the Form √x	GCSE Histogram Questions 2 GCSE Histogram Solutions 2	Solving Problems with Algebra 1
		Wednesday	1127 Operations with Surds (+ and 1)	1. Expand Single Brackets 2. Expand Single Brackets 2 3. Expand Single Brackets 3	1. Solving Problems with Algebra 2 2. Solving Problems with Algebra 3
		Thursday	GCSE Surds Questions 1 GCSE Surds Solutions 1	3. 0935 Expanding Double and Triple Brackets 4. 0968 Expanding Double Brackets: a=1, a>1	1. 0788 Changing the Subject 1 2. 0951 Changing the Subject 2
		Friday	GCSE Surds Questions 2 GCSE Surds Solutions 2	3. 0957 Quadratic Sequences 1 4. 1105 Quadratic Sequences 2	1. 1007 Changing the Subject 3 2. 1008 Changing the Subject 4
24/6/24	A	Monday	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
		Tuesday	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
		Wednesday	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	1. Solve Simultaneous Equations 1
		Thursday	GCSE Proof Questions 1 GCSE Proof Solutions 1	GCSE Solving Quadratics Questions GCSE Solving Quadratics Solutions	1. Solving Simultaneous Equations 2 2. Solve Simultaneous Equations 3
		Friday	GCSE Proof Questions 2 GCSE Proof Solutions 2	GCSE Quadratic Graphs Questions GCSE Quadratic Graphs Solutions	1. Solving Simultaneous Equations 4 2. Solving Simultaneous Equations 5