Remote Curriculum

Year 11 Maths Higher

How it Works:

1. Find the correct week commencing row.
2. Find today's day - There are 2 different lessons in each day – you won't run out of work.
3. Choose a lesson – hold ctrl and click the chosen link.

   If you don't recognise the work, it appears too difficult or the link doesn't load;

   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
5. Complete any starter quizzes.
   a. Write your answer down
   b. Mark your answers and write down any corrections
6. Watch the videos and take notes.
7. Pause if/when instructed to do so to answer questions or respond.
8. Complete and go onto the next one.

Week Commencing	Week	Lesson	Title	Lesson 1 **Hold ctrl and click**	Lesson 2 **Hold ctrl and click**
9/09/24	B	Monday	*Trigonometry*	Know tangent, sine and cosine	Use tangent to find a length
		Tuesday		Use tangent to find a length	Use sine and cosine to find a length
		Wednesday		Use sine and cosine to find a length	Applying Trigonometry
		Thursday		Applying Trigonometry	Use trigonometry to find the perpendicular height of a triangle
		Friday		Use trigonometry to find the perpendicular height of a triangle	Solve basic trigonometry equations
16/09/24	A	Monday		Solve basic trigonometry equations	Use inverse functions to find an angle
		Tuesday		Use inverse functions to find an angle	Solve problems mixing angles and sides
		Wednesday		Solve problems mixing angles and sides	Know the trigonometry ratios for 0°, 30°,45°,60° and 90°
		Thursday		Know the trigonometry ratios for 0°, 30°,45°,60° and 90°	Substitute the exact values to find a missing length
		Friday		Substitute the exact values to find a missing length	Use trigonometry to solve bearing problems
23/09/24	B	Monday		Use trigonometry to solve bearing problems	Know when to use Pythagoras or Trigonometry to solve problems

		Tuesday		Know when to use Pythagoras or Trigonometry to solve problems	Use the sine rule to find a missing length
		Wednesday		Use the sine rule to find a missing length	Use the sine rule to find a missing angle
		Thursday		Use the sine rule to find a missing angle	Use the cosine rule to find a missing length
		Friday		Use the cosine rule to find a missing length	Use the cosine rule to find a missing angle
30/09/24	A	Monday		Use the cosine rule to find a missing angle	Area of a Triangle Using A = ½ absinC
		Tuesday		Area of a Triangle Using A = ½ absinC	Use A = ½ absinC to Find a Missing Length
		Wednesday		Use A = ½ absinC to Find a Missing Length	When to Use the Sine or Cosine Rules
		Thursday		When to Use the Sine or Cosine Rules	Sine, Cosine and Area Rules - Mixed Problems
		Friday		Sine, Cosine and Area Rules - Mixed Problems	Trigonometry in 3D shapes
7/10/24	B	Monday		Trigonometry in 3D shapes	Solve trig equations involving sin x between 0 and 360
		Tuesday		Solve trig equations involving sin x between 0 and 360	Solve trig equations involving cos x between 0 and 360
		Wednesday		Solve trig equations involving cos x between 0 and 360	Know the trigonometry ratios for 0°, 30°,45°,60° and 90°
		Thursday	*Quadratics, quadratic and cubic graphs*	Expand 2 brackets and simplify expressions (Part 1)	Expand 2 brackets and simplify expressions (Part 2)
		Friday		Expand 2 brackets and simplify expressions (Part 2)	Expand and simplify double brackets
14/10/24	A	Monday		Expand and simplify double brackets	Expand and Simplify Double Brackets (Coefficient of x Greater than 1)
		Tuesday		Expand and Simplify Double Brackets (Coefficient of x Greater than 1)	Factorise a quadratic
		Wednesday		Factorise a quadratic	Factorise a quadratic (difference of two squares)
		Thursday		Factorise a quadratic (difference of two squares)	Plot simple quadratic equations
		Friday		Plot simple quadratic equations	Plot other quadratic equations
21/10/24	B	Monday		Plot other quadratic equations	Solving Quadratic Equations Graphically
		Tuesday		Solving Quadratic Equations Graphically	Identify and interpret roots, intercepts and turning points of quadratic graphs
		Wednesday		Identify and interpret roots, intercepts and turning points of quadratic graphs	Expand 2 brackets and simplify expressions (Part 1)
		Thursday		Draw graphs of simple cubic functions using a table of values.	Sketch graphs of simple cubic functions, given as three linear expressions.

		Friday		Sketch graphs of simple cubic functions, given as three linear expressions.	Interpret graphs of simple cubic functions, including finding solutions to cubic equations
4/11/24	A	Monday	*Circle Theorems*	Circle Theorems: Angle at the centre and angle at the circumference	Circle Theorems: Angle in a semicircle is 90 degrees
		Tuesday		Circle Theorems: Angle in a semicircle is 90 degrees	Circle Theorems: Angles in the same segment
		Wednesday		Circle Theorems: Angles in the same segment	Circle Theorems: Angles in a cyclic quadrilateral
		Thursday		Circle Theorems: Angles in a cyclic quadrilateral	Circle Theorems: A tangent and radius are perpendicular at the point of contact
		Friday		Circle Theorems: A tangent and radius are perpendicular at the point of contact	Circle Theorems: The alternate segment theorem
11/11/24	B	Monday		Circle Theorems: The alternate segment theorem	Circle Theorems: The perpendicular from the centre to a chord bisects the chord
		Tuesday		Circle Theorems: The perpendicular from the centre to a chord bisects the chord	Mixed circle theorem problems
		Wednesday		Mixed circle theorem problems	Circle Theorems: Angle in a semicircle is 90 degrees
		Thursday	*Algebra and Algebraic Fractions*	Solving equations with brackets	Solving equations with unknown on both sides
		Friday		Solving equations with unknown on both sides	Substitute a positive term into a formula
18/11/24	A	Monday		Substitute a positive term into a formula	Substitute a negative term into a formula
		Tuesday		Substitute a negative term into a formula	Checking and securing understanding of simplifying
		Wednesday		Checking and securing understanding of simplifying	Checking and securing understanding of substitution
		Thursday		Checking and securing understanding of substitution	Add two algebraic fractions with integer denominators
		Friday		Add two algebraic fractions with integer denominators	Subtract two algebraic fractions with an integer denominator
25/11/24	B	Monday		Subtract two algebraic fractions with an integer denominator	Solving equations involving adding two fractions
		Tuesday		Solving equations involving adding two fractions	Solving equations involving subtracting two fractions
		Wednesday		Solving equations involving subtracting two fractions	Add two algebraic fractions with integer denominators

		Thursday	*Further Sequences Revision*	Checking and securing understanding of special number sequences	Fibonacci and alternating sequences
		Friday		Fibonacci and alternating sequences	Checking and securing rules for generating arithmetic sequences
2/12/24	A	Monday		Checking and securing rules for generating arithmetic sequences	Identifying values in an arithmetic sequence
		Tuesday		Identifying values in an arithmetic sequence	Reasoning about values in an arithmetic sequence
		Wednesday		Reasoning about values in an arithmetic sequence	Conditions in arithmetic sequences
		Thursday		Conditions in arithmetic sequences	Arithmetic sequences and their graphs
		Friday		Arithmetic sequences and their graphs	Quadratic sequences
9/12/24	B	Monday		Quadratic sequences	Checking and securing understanding of geometric sequences
		Tuesday		Checking and securing understanding of geometric sequences	Sequence notation
		Wednesday		Sequence notation	Advanced problem solving with further sequences
		Thursday		Advanced problem solving with further sequences	Sequence notation
		Friday		Checking and securing understanding of special number sequences	Fibonacci and alternating sequences
16/12/24	B	Monday		Fibonacci and alternating sequences	Checking and securing rules for generating arithmetic sequences
		Tuesday		Checking and securing rules for generating arithmetic sequences	Identifying values in an arithmetic sequence
		Wednesday		Identifying values in an arithmetic sequence	Reasoning about values in an arithmetic sequence
		Thursday		Reasoning about values in an arithmetic sequence	Conditions in arithmetic sequences
		Friday		Conditions in arithmetic sequences	Arithmetic sequences and their graphs