Remote Curriculum Year 10 Maths: Higher sets 1, 2 and 3.
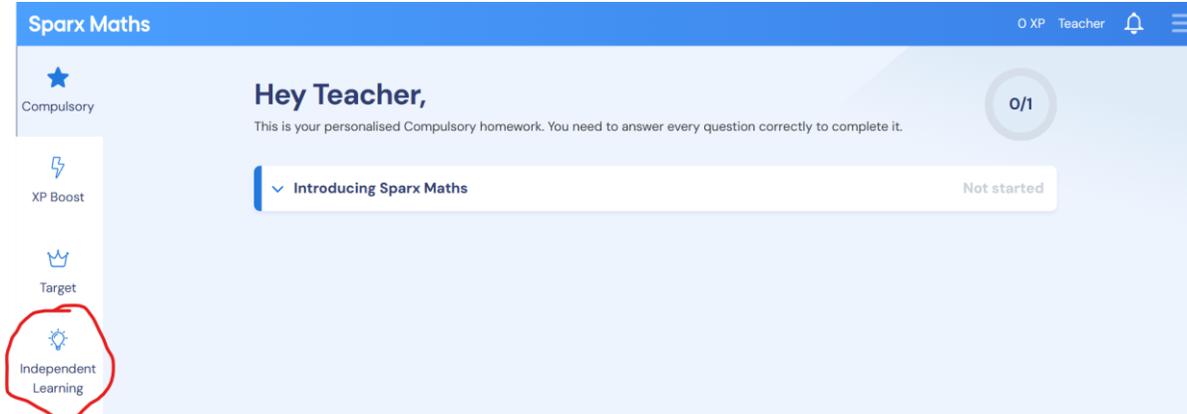
How it Works:

1. Find the correct week commencing row.
2. Find today's day - There is one video lesson for you to complete and then a Sparx independent learning activity.
3. Choose 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.
   Some lessons have links to PowerPoints and other resources beneath the video and/or Starter Quiz
5. Complete any starter quizzes.
   b. Write your answer down
   c. 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 Sparx independent task as shown below.

Login to Sparx using your usual details.
Click on the Independent Learning Button in the bottom left corner as indicated below.

Type in the topic code given on the revision list above and change your 'Curriculum' to GCSE.
Higher GCSE students should be completing questions at level 4 or above. (If there are no questions available at this level, please select level where there are questions).

Independent Learning

Search for topics:

Enter topic name or code

Your curriculum:

GCSE ▾

Default level:

Level 4 ▾

Select a topic:

Number

Algebra x^2

Week Commencing	Day	Topic	Lesson 1 **Hold ctrl and click**	Sparx Code **Type this code into independent learning section on Sparx as shown.**
09/09/24	Monday	Powers, Roots and Surds	[Lesson: Checking and securing understanding of prime factorisation | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U739
	Tuesday		[Lesson: Checking and securing understanding of LCM and HCF | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U250
	Wednesday		[Lesson: Converting any recurring decimal to a fraction | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U689
	Thursday		[Lesson: Simplifying surds | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U338
	Friday		[Lesson: Applying the underlying structure of multiplication and division of surds | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U633
16/09/24	Monday		[Lesson: The distributive law with surds | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U499
	Tuesday		[Lesson: The distributive law with two or more binomials | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U499
	Wednesday		[Lesson: Rationalising a single term denominator | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U707

	Thursday		[Lesson: Rationalising a two term denominator | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U281
	Friday		[Lesson: Solving equations with surds | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	Complete the questions from the worksheet on the link on the left.
23/09/24	Monday	Indices and Standard Form	[Lesson: Checking and securing understanding of roots and integer indices | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U851
	Tuesday		[Lesson: The laws of indices - multiplication | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U235
	Wednesday		[Lesson: The laws of indices - division | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U235
	Thursday		[Lesson: The laws of indices - raising a power to a power | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U235
	Friday		[Lesson: The laws of indices - negative and zero exponents | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U694
30/09/24	Monday		[Lesson: The laws of indices - fractional exponents | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U985/U772
	Tuesday		[Lesson: Advanced problem solving with the laws of indices | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	Complete the questions from the worksheet on the link on the left.
	Wednesday		[Lesson: Convert large numbers to standard form | Foundation | KS4 Maths](#)	U330

				Oak National Academy (thenational.academy)	
	Thursday		Lesson: Convert large standard form numbers to ordinary form | Foundation | KS4 Maths | Oak National Academy (thenational.academy)	U330
	Friday		Lesson: Convert small numbers to standard form | Foundation | KS4 Maths | Oak National Academy (thenational.academy)	U534
07/10/24	Monday		Lesson: Convert small standard form numbers to ordinary form | Foundation | KS4 Maths | Oak National Academy (thenational.academy)	U534
	Tuesday		Lesson: Adding two numbers in standard form | Core | KS4 Maths | Oak National Academy (thenational.academy)	U290
	Wednesday		Lesson: Subtracting two numbers in standard form | Foundation | KS4 Maths | Oak National Academy (thenational.academy)	U290
	Thursday		Lesson: Multiplying Two Numbers in Standard Form | Foundation | KS4 Maths | Oak National Academy (thenational.academy)	U264
	Friday		Lesson: Dividing Two Numbers in Standard Form | Foundation | KS4 Maths | Oak National Academy (thenational.academy)	U264
14/10/24	Monday		Lesson: Checking and securing understanding of special number sequences | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U680
	Tuesday		Lesson: Fibonacci and alternating sequences | Higher | KS4 Maths | Oak	U680

		Sequences	[National Academy (thenational.academy)](#)	
	Wednesday		[Lesson: Checking and securing rules for generating arithmetic sequences | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U498
	Thursday		[Lesson: Checking and securing rules for generating arithmetic sequences | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U498
	Friday		[Lesson: Reasoning about values in an arithmetic sequence | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U530
21/10/24	Monday		[Lesson: Conditions in arithmetic sequences | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U530
	Tuesday		[Lesson: Arithmetic sequences and their graphs | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	Complete the questions from the worksheet on the link on the left.
	Wednesday		[Lesson: Quadratic sequences | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U206
	Thursday		[Lesson: Checking and securing understanding of geometric sequences | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U958
	Friday		[Lesson: Advanced problem solving with further sequences | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	Complete the questions from the worksheet on the link on the left.
04/11/24	Monday		[Lesson: Checking and securing understanding of the product of two binomials | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U798

	Tuesday	Quadratics	Lesson: The product of three binomials | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U606
	Wednesday		Lesson: Factorising a quadratic expression | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U178
	Thursday		Lesson: Factorising using the difference of two squares | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U963
	Friday		Lesson: Factorising quadratics of the form ax^2 + bx + c | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U858
11/11/24	Monday		Lesson: Solving quadratic equations by factorising | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U228
	Tuesday		Lesson: Solving quadratic equations by factorising where rearrangement is required | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U960
	Wednesday		Lesson: Solving quadratic equations by completing the square | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U589
	Thursday		Lesson: Advanced problem solving with algebraic manipulation | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U665
	Friday		Lesson: Checking and securing understanding of drawing linear graphs | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U741
18/11/24	Monday		Lesson: Checking and securing understanding of finding the equation of	U315

			the line from the graph | Higher | KS4 Maths | Oak National Academy (thenational.academy)	
	Tuesday		Lesson: Checking and securing understanding of finding the equation of the line from coordinates | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U848
	Wednesday		Lesson: Parallel linear graphs | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U898
	Thursday		Lesson: Perpendicular linear graphs | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U898
	Friday		Lesson: Identifying perpendicular linear graphs | Higher | KS4 Maths | Oak National Academy (thenational.academy)	Complete the questions from the worksheet on the link on the left.
25/11/24	Monday		Lesson: Parallel and perpendicular lines on coordinate axes | Higher | KS4 Maths | Oak National Academy (thenational.academy)	Complete the questions from the worksheet on the link on the left.
	Tuesday		Lesson: Ratios in line segments on coordinate axes | Higher | KS4 Maths | Oak National Academy (thenational.academy)	Complete the questions from the worksheet on the link on the left.
	Wednesday		Lesson: Checking and understanding graphs showing direct proportion | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U238
	Thursday		Lesson: Graphs showing inverse proportion | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U238
	Friday		Lesson: Advanced problem solving with linear graphs | Higher | KS4 Maths | Oak National Academy (thenational.academy)	Complete the questions from the worksheet on the link on the left.

02/12/24	Monday	Simultaneous Equations	[Lesson: Checking and securing understanding of solving and interpreting linear equations | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U325
	Tuesday		[Lesson: Checking and securing understanding of substitution | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U585
	Wednesday		[Lesson: Checking and securing understanding of interpreting graphs | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U741
	Thursday		[Lesson: Forming simultaneous equations | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U137
	Friday		[Lesson: Combining equations | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	Complete the questions from the worksheet on the link on the left.
09/12/24	Monday		[Lesson: Solving algebraic simultaneous equations by elimination | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U760
	Tuesday		[Lesson: Solving more complex simultaneous equations by elimination | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U760
	Wednesday		[Lesson: Solving simultaneous linear equations by substitution | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U757
	Thursday		[Lesson: Solving simultaneous linear equations graphically | Higher | KS4 Maths | Oak National Academy (thenational.academy)](#)	U836
	Friday		[Lesson: Solving a quadratic and linear pair of simultaneous equations using](#)	U269

			elimination | Higher | KS4 Maths | Oak National Academy (thenational.academy)	
16/12/24	Monday		Lesson: Solving a quadratic and linear pair of simultaneous equations using substitution | Higher | KS4 Maths | Oak National Academy (thenational.academy)	Complete the questions from the worksheet on the link on the left.
	Tuesday		Lesson: Solving a quadratic and linear pair of simultaneous equations graphically | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U875
	Wednesday		Lesson: Solving simultaneous equations by elimination from a context | Higher | KS4 Maths | Oak National Academy (thenational.academy)	U137
	Thursday		Lesson: Solving simultaneous equations via any method | Higher | KS4 Maths | Oak National Academy (thenational.academy)	Complete the questions from the worksheet on the link on the left.
	Friday		Lesson: Problem solving with linear and quadratic simultaneous equations | Higher | KS4 Maths | Oak National Academy (thenational.academy)	Complete the questions from the worksheet on the link on the left.