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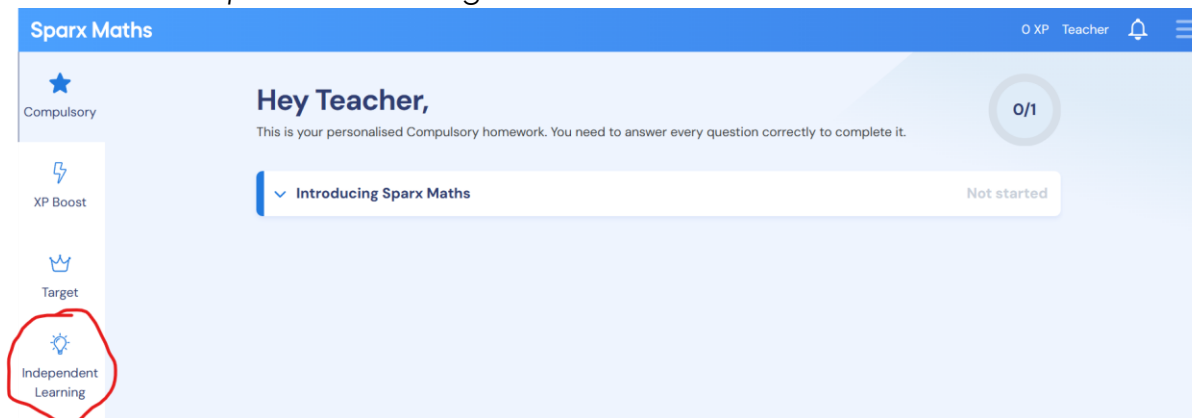
How it Works:

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.**
15/04/24	Monday	Quadratic, Cubic and Other Graphs	[Draw graphs of simple cubic functions using a table of values. | Oak National Academy (thenational.academy)](#)	U980
	Tuesday		[Recognise, draw, sketch and interpret graphs of the reciprocal function y = 1/x | Oak National Academy (thenational.academy)](#)	U593
	Wednesday		[Draw quadratic graphs (a > 1) | Oak National Academy (thenational.academy)](#)	U989
	Thursday		[Draw and recognise circle graphs of the form x² + y² = r² | Oak National Academy (thenational.academy)](#)	U567
	Friday		[Find the equation of a tangent to a circle at a given point | Oak National Academy (thenational.academy)](#)	U567
22/04/24	Monday	Simultaneous Equations	[Solve linear simultaneous equations where one of the coefficients is equal | Oak National Academy (thenational.academy)](#)	U760
	Tuesday		[Solve linear simultaneous equations where you need to multiply one of the equations | Oak National Academy (thenational.academy)](#)	U760
	Wednesday		[Solve linear simultaneous equations where you need to multiply both equations | Oak National Academy (thenational.academy)](#)	U760
	Thursday		[Solve linear simultaneous equations where you need to first rearrange | Oak National Academy (thenational.academy)](#)	U137
	Friday		[Solve a quadratic equation by factorising (Higher) | Oak National Academy (thenational.academy)](#)	U960

29/04/24	Monday		Use formulae to solve quadratic equations (any value) | Oak National Academy (thenational.academy)	U665
	Tuesday		Solve where y = and y = (setting the equations equal to one another) | Oak National Academy (thenational.academy)	U757
	Wednesday		Solve where x² + y² = r and x + y = 3 (substituting) | Oak National Academy (thenational.academy)	U547
	Thursday		Solve where xy = a and y = 2x + 1 (substituting) | Oak National Academy (thenational.academy)	U547
	Friday		Understanding solutions to equations with respect to their graphs | Oak National Academy (thenational.academy)	U875
06/05/24	Monday	Multiplicative Reasoning	Divide a quantity in a given ratio | Oak National Academy (thenational.academy)	U577
	Tuesday		Find a part given a part | Oak National Academy (thenational.academy)	U753
	Wednesday		Find the total or difference given a part | Oak National Academy (thenational.academy)	U753
	Thursday		Simple Interest | Oak National Academy (thenational.academy)	U533
	Friday		Repeated percentage increase and decrease | Oak National Academy (thenational.academy)	U332
13/05/24	Monday		Solve problems with repeated percentage change | Oak National Academy (thenational.academy)	U988
	Tuesday		Use and apply the speed formula | Oak National Academy (thenational.academy)	U151
	Wednesday		Use and apply the density formula | Oak National Academy (thenational.academy)	U910
	Thursday		Use and apply the pressure formula | Oak National Academy (thenational.academy)	U527

	Friday		Solve simple kinematics problems (velocity, initial velocity and acceleration formulae) | Oak National Academy (thenational.academy)	
20/05/24	Monday	Inequalities	Representing Inequalities on a Number Line | Oak National Academy (thenational.academy)	U509
	Tuesday		Solve One and Two Step Inequalities | Oak National Academy (thenational.academy)	U759
	Wednesday		Solve Inequalities with Unknowns on Both Sides | Oak National Academy (thenational.academy)	U738
	Thursday		Solving Inequalities Involving Algebraic Fractions | Oak National Academy (thenational.academy)	U145
	Friday		Solve a quadratic equation by factorising | Oak National Academy (thenational.academy)	U228
03/06/24	Monday		Solve a quadratic equation by factorising (Higher) | Oak National Academy (thenational.academy)	U960
	Tuesday		Use formulae to solve quadratic equations (any value) | Oak National Academy (thenational.academy)	U665
	Wednesday		Solve simple quadratic inequalities | Oak National Academy (thenational.academy)	U133
	Thursday		Solve quadratic inequalities (a = 1) | Oak National Academy (thenational.academy)	U133
	Friday		Solve quadratic inequalities (a > 1) | Oak National Academy (thenational.academy)	U133
10/06/24	Monday		Compare the cost of two items using the unitary method | Oak National Academy (thenational.academy)	U721
	Tuesday		Using direct proportion graphs | Oak National Academy (thenational.academy)	U238
	Wednesday		Proportion problems | Oak National Academy (thenational.academy)	U357

	Thursday	Direct and Inverse Proportion	[Simple direct proportion y = kx | Oak National Academy (thenational.academy)](#)	U640
	Friday		[Other direct proportion relationships | Oak National Academy (thenational.academy)](#)	U407
17/06/24	Monday		[Inverse proportion | Oak National Academy (thenational.academy)](#)	U138
	Tuesday		[Proportion problems | Oak National Academy (thenational.academy)](#)	U357
	Wednesday		[Simple direct proportion y = kx | Oak National Academy (thenational.academy)](#)	U640
	Thursday		[Other direct proportion relationships | Oak National Academy (thenational.academy)](#)	U407
	Friday		[Inverse proportion | Oak National Academy (thenational.academy)](#)	U138
24/06/24	Monday	Transformations	[Identify similar shapes and show shapes are similar | Oak National Academy (thenational.academy)](#)	U122
	Tuesday		[Find missing lengths in similar separate shapes | Oak National Academy (thenational.academy)](#)	U578
	Wednesday		[Find areas of similar shapes given corresponding lengths | Oak National Academy (thenational.academy)](#)	U630
	Thursday		[Find volumes of similar shapes given corresponding lengths | Oak National Academy (thenational.academy)](#)	U110
	Friday		[Rotate an Object around a Given Coordinate | Oak National Academy (thenational.academy)](#)	U696
01/07/24	Monday		[Enlarge an Object with a Positive Scale Factor from a Given Coordinate | Oak National Academy (thenational.academy)](#)	U519
	Tuesday		[Enlargement with a negative scale factor | Oak National Academy (thenational.academy)](#)	U134

	Wednesday		Translate and describe a 2D vector | Oak National Academy (thenational.academy)	U196
	Thursday		Reflecting in a given horizontal or vertical line (Part 1) | Oak National Academy (thenational.academy)	U799
	Friday		Reflecting in a given horizontal or vertical line (Part 2) | Oak National Academy (thenational.academy)	U799
15/07/24	Monday		Reflecting in a given diagonal line (Part 1) | Oak National Academy (thenational.academy)	U799
	Tuesday		Reflecting in a given diagonal line (Part 1) | Oak National Academy (thenational.academy)	U799
	Wednesday		Combining transformations	U766
	Thursday		Enlarge an Object with a Positive Scale Factor from a Given Coordinate | Oak National Academy (thenational.academy)	U519
	Friday		Enlargement with a negative scale factor | Oak National Academy (thenational.academy)	U134