"Success is not final, failure is not fatal: it is the courage to continue that counts." – Winston Churchill

Year 11 Higher Revision Topics

These are the topics that you have covered so far this year. These topics, if they appear on the assessment will be the ones that your teacher will be looking closely at how well you answer them.

Number Topic	Sparx Maths Independent Practice Codes
Calculating with roots and fractional indices	U851, U985, U772, U299
Converting recurring decimals to fractions	U689
Surds	U338, U663, U872, U499
Rationalising the denominator	U707, U281
Error intervals	U657, U301, U587
Fractions	U224, U538, U793
Factors, multiples and primes	U739, U250
Percentage change	U671, U332, U988
Standard form	U330, U534, U264, U290
Error intervals	U657

Ratio & Proportion Topic	Sparx Maths Independent Practice Codes
Ratio	U687, U753, U176, U577, U921, U865
Speed	U151
Density and pressure	U910, U527
Proportion	U721, U357, U610
Algebraic direct and inverse proportion	U407, U138
Compound units: Density problem solving	U910

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Algebra Topic	Sparx Maths Independent Practice Codes
Linear equations	U325, U870, U599
Linear inequalities	U759, U738, U145, U337
Index laws	U662
Linear simultaneous equations	U760, U757, U836, U137
Linear graphs and coordinates	U315, U669, U477, U848, U377
Quadratic graphs and equations	U989, U667, U228, U601
Expanding triple brackets	U606
Operations with algebraic fractions	U685, U457, U824
Factorising quadratic expressions: ax ² +bx+c	U858
Simplifying algebraic fractions	U294
Factorising to solve quadratics equations	U228, U960
Using the quadratic formula	U665
Completing the square to solve quadratics	U397, U589
Quadratic equations in context	U150
Quadratic simultaneous equations	U547
Index laws	U235, U694, U662
Equation of a straight line: Perpendicular lines	U898
Quadratic graphs: Turning points	U769
Quadratic simultaneous equations on graphs	U875
Exponential graphs	U229
Exponential growth and decay problems	U988
Trigonometric graphs	U450
Graph transformations	U598, U487, U455
Velocity-time graphs	U937, U562, U611
Rate of change graphs	U638, U652, U862
Estimating gradient from a curve	U800
Estimating area under a curve	U882
Equation of a circles and tangents	U567
Linear inequalities as graph regions	U747
Quadratic inequalities	U133
Functions	U637, U895, U448, U996
Recurrence relations	U171
Quadratic sequences	U206
Iteration and numerical methods	U434, U168
Algebraic proof	U582

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Geometry Topic	Sparx Maths Independent Practice Codes
Area	U226, U343, U950
Volume	U786, U174, U915
Angles	U655, U826, U329, U427
Pythagoras' theorem	U385
Trigonometry	U605, U283, U545
Transformations	U196, U799, U696, U519, U766
Congruence proofs	U866, U887
Enlargements	U134
Describe combined transformations	U766
Circle theorems: Angles inside a circle	U459, U251
Circle theorems: Tangents and chords	U489, U130
Circle theorems problems	U808
Prove circle theorems	U807
Volume of frustums	U350
Volume: Problem solving	U543, U426
Similar Shapes: Area and volume	U630, U110
Pythagoras' Theorem in 2D and 3D	U385, U541
Right-angled trigonometry: Problem solving	U319, U283, U545, U967
3D trigonometry	U170
The area rule	U592
Sine rule	U952
Cosine rule	U591
Trigonometry and bearings	U164
Vectors problems	U781, U560

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Probability Topic	Sparx Maths Independent Practice Codes
Calculating probabilities	U408, U510, U683, U580
Expected outcomes	U166
Tree diagrams	U558, U729
Set notation	U748, U296
Product rule for counting	U369
Conditional probability	U246, U821, U806
Probability from Venn diagrams	U476, U748, U699

Statistics Topics	Sparx Maths Independent Practice Codes
Averages	U569, U877, U717
Averages with grouped data	U877
Sampling	U162
Scatter graphs	U199, U277, U128
Frequency polygons	U840
Cumulative frequency diagrams	U182, U642
Box plots	U879, U837, U507
Frequency polygons	U840
Histograms	U814, U983, U267
Capture-recapture	U328

How to Log Into Sparx Maths



You will then be brought to the following page where you will find any compulsory homework set for you by your teacher – you need to be completing this weekly to ensure you are retrieving the knowledge that you have learnt throughout the year.



How to do Sparx Maths independent Practice



Compulsory		Independent Learr	ing		
5	Type in the	Find topics My activity			
XP Boost	code from	Search for topics:	Your curriculum:	Default level:	
2	the revision	M354	Key Stage 3	▼ Level 2 ▼	
Target	up the	1 topic found		Clear search	
Tindependent Learning	revision for that topic	Number > Dividing Using a written method to divide into	igers – M354	х.	
		Ratio and Proportion	3:2 Geometry	1	
		Probability	Statistics	al	



How to complete a Sparx Maths task





"Mistakes are the stepping stones to wisdom." - Oprah Winfrey



The most important thing to remember is not to give up – if you write nothing for a question, you will definitely get it wrong, so have a guess, you will get marks for working out.