

## Year 11 Revision Checklist

# Maths - Higher

<b>Exam length</b>	Paper 1: Non-calculator (80 marks, 90 minutes) Paper 2: Calculator (80 marks, 90 minutes) Paper 3: Calculator (80 marks, 90 minutes)
<b>Topics to Revise</b>	Revise all topics
<b>Resources to support revision</b>	<ul style="list-style-type: none"> <li>• Your classwork book: look at worked examples and working out</li> <li>• Sparx Independent Learning: <a href="https://www.sparxmaths.uk">https://www.sparxmaths.uk</a></li> <li>• Physics and Maths tutor: <a href="https://www.physicsandmathstutor.com/maths-revision/gcse-questions-edexcel/">https://www.physicsandmathstutor.com/maths-revision/gcse-questions-edexcel/</a></li> <li>• Maths genie: <a href="https://www.mathsgenie.co.uk/">https://www.mathsgenie.co.uk/</a></li> </ul>

### Overview of Topics

Content	Number		
	Sparx Unit Codes	Sparx Independent Learning	Practice Exam Questions
Money	U478, U293, U868, U881, U554, U916, U349		
Four operations	U417, U478, U735, U127, U293, U453, U868, U976		
Negative number	U947, U742, U548		
Order fractions, decimals, percentages	U746, U439, U594		
Fraction of an amount	U881, U916		
Fraction arithmetic	U736, U793, U475, U224, U544, U538, U874		
Place value	U600, U435		
Multiples	U751		
Factors	U211, U529		
Lowest Common Multiple	U751, U250		
Product of prime factors	U739, U250		
Standard form Conversion	U330, U534		
Standard form Calculation	U264, U290		
Rounding	U480, U298, U731, U965		
Estimation	U225		
Error interval	U657		
Recurring decimal to fraction	U689		
Negative and fractional indices	U694, U985, U772		
Simplification of surds	U338		
Bounds	U587		
Product rule for counting	U369		
Use of a calculator	U926		

<b>Algebra</b>			
<b>Content</b>	<b>Sparx Unit Codes</b>	<b>Sparx Independent Learning</b>	<b>Practice Exam Questions</b>
Simplifying expressions	U105, U662		
Expanding single brackets	U179		
Factorisation	U365, U178, U858, U963		
Laws of indices	U235, U694, U662		
Substitution	U201, U585, U144		
Change subject of a formula	U556		
Forming an expression	U613		
Expanding double brackets	U768, U606		
Difference of two squares	U963		
Algebraic fractions	U103, U437, U294, U685, U457, U824		
Form an equation	U599		
Linear equation	U755, U325, U870, U505		
Set up and solve equation	U599		
Linear inequalities	U509, U759, U738, U145, U337		
Quadratic inequalities	U133		
Quadratic equations	U228, U960, U589, U665, U150, U601		
Equations of parallel lines	U377		
Simultaneous equations linear/quadratic	U760, U757, U547, U836, U137		
Coordinates	U789, U889		
Quadratic graphs	U989, U667		
Further graphs	U980, U593, U229		
Gradient of a straight line graph	U315, U669, U477		
Gradients of parallel and perpendicular lines	U477, U848, U377, U898		
Inverse and composite functions	U996, U448		

<b>Ratio and Proportion</b>			
<b>Content</b>	<b>Sparx Unit Codes</b>	<b>Sparx Independent Learning</b>	<b>Practice Exam Questions</b>
Conversion Length, mass, time, area	U388, U902, U248		
Compound units	U151, U256, U910, U527		
Percentage to fraction	U888		
Percentage profit	U671, U278		
One quantity as a percentage of another	U349		
Depreciation	U988		
Reverse percentage	U286		
Write as a ratio	U687		
Depreciation	U988		
Reverse percentage	U286		

One quantity as a percentage of another	U349		
Write as a ratio	U687		
Share in a ratio	U577		
Use of ratio	U753, U176, U577		
1:n form	U687		
Direct proportion	U721, U640, U238		
Inverse proportion	U357, U364, U138		
Equations of proportion	U640, U407, U364, U138		
Speed	U151		
Average speed	U151, U462		
Density	U910		

<b>Geometry</b>			
Content	Sparx Unit Codes	Sparx Independent Learning	Practice Exam Questions
Column vectors	U632, U903, U564, U781, U660		
Circles	U767, U604, U950		
Parallel and perpendicular lines	U121		
Plan and elevation	U743		
Angles in a triangle	U628		
Vertically opposite angles	U730		
Angle properties of parallel lines	U826		
Angles in a polygon	U427		
Area of a rectangle	U993		
Area of a triangle	U945, U343		
Area of a trapezium	U265, U343		
Volume of a cube	U786		
Volume of a cylinder	U915		
Volume of composite solid	U543		
Area of a sector	U373		
Arc length	U221		
Circle theorems	U459, U251, U489, U130, U808		
Circle theorem proofs	U807		
Pythagoras's Theorem	U385		
Right angle trigonometry	U605, U283, U545, U627, U319		
Further trigonometry	U952, U591, U592		
Similarity	U551, U112, U578, U630, U110		
Congruence	U790, U112, U866, U887		

<b>Probability</b>			
Content	Sparx Unit Codes	Sparx Independent Learning	Practice Exam Questions
Probability	U803, U408, U510, U580, U558, U729		
Venn diagram	U476, U748		
Probability from a Venn diagram	U699		
Independent combined events	U683, U166		
Dependent combined events	U729, U246, U699, U821, U806		

## Statistics

Content	Sparx Unit Codes	Sparx Independent Learning	Practice Exam Questions
Pictogram	U506		
Bar chart	U363, U557		
Interpret graph	U193, U277		
Two-way table	U981		
Frequency table	U981, U312		
Stem and leaf diagram	U200, U909		
Frequency polygon	U840		
Mode, median, mean, range	U260, U569, U854, U456, U291, U877, U526		
Compare distributions	U507		
Sampling and bias	U162		
Frequency polygons	U840		
Histograms	U185, U814, U983, U267		
Cumulative frequency	U182, U642		
Box plots	U879, U837, U507		
Capture-recapture method	U328		