



Year 11 – Autumn term learning program

Depending on your predicted grade some lessons in this learning plan may be unsuitable.

Students should use the GCSE grade 1 – 9 filters at the top of each subject webpage, to choose the lessons appropriate to their predicted grade.

Grade filter **Off** 1 2 3 4 5 6 7 8 9 KS2 KS3

Lesson Number	Subject - Algebra	Complete	Score
	Topic - Solving Equations		
50	Solving equations, part 1		
51	Solving equations, part 2		
52	Solving equations, part 3		
53	Solving equations with brackets		
54	Solving equations with a divide or fraction		
55	Solving equations with x's on both sides		
	Topic - Solving Equations Using Number Machines		
56	Solving equations, using number machines		
57	Solving equations with brackets, using number machines		
58	Solving equations with a divide in, using a number machine		
59	Solving equations with x's on both sides using number machines		
	Topic - Forming and Solving Linear Equations		
60	Forming and Solving Linear Equations Part 1		
61	Forming and Solving Linear Equations Part 2		
62	Forming and Solving Linear Equations Exam Question		
	Topic - Solving Quadratic Equations (Higher Only)		
126	Solving quadratic equations by factorising part 1		
127	Solving quadratic equations by factorising part 2		
128	Solving quadratics using the quadratic formula, part 1		
129	Solving quadratics using the quadratic formula, part 2		
	Topic - Forming and Solving Quadratic Equations (Higher only)		
132	Forming and Solving Quadratic Equations Part 1		
133	Forming and Solving Quadratic Equations Part 2		
134	Forming and Solving Quadratic Equations Exam Question		
	Subject - Geometry and measures		
	Topic - Midpoints of Lines		
82	Finding the Midpoint of a Line Joining 2 Points		
83	Finding the Midpoint of a Line Joining 2 Points Exam Question		
	Topic - 3D Coordinates (Higher Only)		
84	x, y, z coordinates		
85	Finding the Midpoint of a Line Joining 2 3D coordinates		
	Subject - Algebra		
	Topic - Straight Line Graphs		

89	Finding the equation of a line passing through a coordinate (Higher Only)		
90	Finding equations of parallel lines (Higher Only)		
91	Finding equations of parallel lines that pass through a point (Higher Only)		
92	Equations of parallel lines passing through a coordinate (Higher Only)		
93	Finding equations of perpendicular lines (Higher Only)		
94	Finding equations of perpendicular lines passing through a point (Higher Only)		
95	Equations of perpendicular lines passing through a coordinate (Higher Only)		
	Topic - Solving Equations Using Graphs (Higher Only)		
145	Solving Equations using Graphs Part 1		
146	Solving Equations using Graphs Part 2		
147	Solving Equations using Graphs Part 3		
148	Solving Equations using Graphs Part 4		
	Topic - Simultaneous Equations		
155	Solving quadratic simultaneous equations, part 1		
156	Solving quadratic simultaneous equations, part 2		
157	Solving simultaneous equations, with a circle equation		
	Topic - Solving Equations Containing Algebraic Fractions (Higher Only)		
170	Solving Linear Equations Containing Algebraic Fractions Part 1		
171	Solving Linear Equations Containing Algebraic Fractions Part 2		
172	Forming and Solving Quadratic Equations from Algebraic Fractions		
173	Forming and Solving Quadratic Equations from Algebraic Fractions Exam Question		
	Topic - Quadratic Graphs (Higher Only)		
135	Quadratic graphs, making a table of values		
136	Plotting quadratic graphs and finding the minimum value		
	Topic - Further Graphs		
137	The 4 Types of Further Graphs		
138	Introduction to Cubic Graphs		
139	Plotting Cubic Graphs		
140	Introduction to the Graph of the Reciprocal Function		
141	Plotting the Reciprocal Function		
142	Plotting Circle Graphs		
143	Plotting Circle Graphs Exam Question		
144	Plotting Exponential Graphs		
	Topic - Trigonometric Graphs and Exact Values		
206	The Graph of Cos x		
207	The Graph of Sin x		
208	Graph of Tan x		
212	Exact values of sin, cos and tan - Exam Trick		
213	Finding the exact values of tan		
	Topic - Graphs of Inequalities (Higher Only)		
108	Graphs of inequalities and shading regions, part 1		
109	Graphs of inequalities and shading regions, part 2		
110	Graphs of inequalities and shading regions, part 3		
111	Graphs of inequalities and shading regions, part 4		
	Topic - Multiplying Out Double and Triple Brackets		
21	Expanding triple brackets		
	Topic - Rearranging Formula		

28	Rearranging formula part 1		
29	Rearranging formula part 2		
30	Rearranging formula Higher only		
31	Rearranging formula when the subject is on the bottom of a divide line (Higher Only)		
	Topic - Rearranging Formula when the Subject Appears Twice (Higher Only)		
32	Rearranging Formula when the Subject Appears Twice Part 1		
33	Rearranging Formula when the Subject Appears Twice Part 2		
34	Rearranging Formula when the Subject Appears Twice Part 3		
35	Rearranging Formula when the Subject Appears Twice Part 4		
36	Rearranging Formula when the Subject Appears Twice Exam Question		
	Topic - Direct Proportion		
75	Direct Proportion m is proportional to p		
76	Direct Proportion y is proportional to x^2		
77	Using Formula Triangles in Direct Proportion Questions		
	Topic - Inverse Proportion		
78	Inverse Proportion y is Inversely Proportional to x		
79	Inverse Proportion y is Inversely Proportional to x^2		
80	Using Formula Triangles in Inverse Proportion Questions		
	Subject - Number, Ratio and proportion		
	Topic - Rounding		
13	Rounding to decimal places (D.P)		
14	Rounding to Significant Figures part 1		
15	Rounding to Significant Figures part 2		
	Topic - Standard Form		
51	Entering standard form into a calculator		
	Topic - Fractions		
66	Finding a fraction of an amount		
	Topic - Mixed Numbers		
68	Simplifying top heavy fractions into mixed numbers		
69	Changing mixed numbers into top heavy fractions		
70	Top heavy fractions into mixed numbers, exam tip		
71	Adding mixed numbers		
72	Subtracting mixed numbers		
73	Multiplying mixed numbers and fractions		
74	Dividing mixed numbers and fractions		
	Topic - Percentages		
79	Finding percentages - non calculator, part 1		
80	Finding percentages - non calculator, part 2		
81	Finding decimal percentages, non-calculator		
82	Finding percentages using a calculator		
83	Increasing a number by a percentage (non-calculator)		
84	Increasing a number by a percentage (calculator)		
85	Decreasing a number by a percentage (non-calculator)		
86	Decreasing a number by a percentage (calculator)		
87	Writing a number as a percentage of another number		
88	Finding the percentage a number increases by		

89	Finding the percentage a number decreases by		
	Topic - Fractions, Percentages and Decimals		
75	Changing between fractions, decimals and percentages		
	Topic - Ratio		
101	Simplifying ratios in the form 1:n		
102	Sharing amounts into ratios, part 1		
103	Sharing amounts into ratios, part 2		
104	Sharing amounts into ratios, part 3		
105	Ratio questions with ingredients		
106	Ratio Practice Exam Question		
	Topic - Best Buy		
110	Best buy - Calculator method		
111	Best buy - Non Calc method		
	Topic - Exchange Rates		
109	Exchange rates		
	Topic - Direct and Inverse Proportion		
107	Direct proportion, word questions		
108	Inverse proportion, word question		
	Topic - Changing Recurring Decimals into Fractions		
76	Changing recurring decimals into fractions, part 1		
77	Changing recurring decimals into fractions, part 2		
78	Changing recurring decimals into fractions, part 3		
	Topic - Powers (Higher Only)		
37	Negative powers, part 1		
38	Negative powers, part 2		
39	Negative powers, part 3		
40	Negative powers, part 4		
41	Fractional powers and roots, part 1		
42	Fractional powers and roots, part 2		
43	Negative fractional powers and roots, part 1		
44	Negative fractional powers and roots, part 2		