



# Year 9 – Summer term learning program

Depending on your current level of maths some students may need to review year 7 and 8 lessons first.

More able students should complete additional lessons within each topic to extend themselves.

Lesson Number	Subject - Number, Ratio and proportion	Complete	Score
	<b>Topic - Standard Form</b>		
45	Introduction to standard form		
46	Converting standard form to ordinary numbers, part 1		
47	Converting standard form to ordinary numbers, part 2		
52	Adding and subtracting standard form numbers		
	<b>Topic - Surds (Higher Only)</b>		
113	Simplifying surds, part 1		
114	Simplifying surds, part 2		
	<b>Topic - Powers</b>		
36	The power of zero - exam tip		
	<b>Topic - Powers (Higher Only)</b>		
37	Negative powers, part 1		
38	Negative powers, part 2		
41	Fractional powers and roots, part 1		
	<b>Subject – Geometry and measures</b>		
	<b>Topic - Properties of Shapes</b>		
79	Kites		
80	Parallelograms and Rhombuses		
81	Trapeziums		
	<b>Topic - Congruence</b>		
165	Congruent Shapes		
	<b>Topic - Similar Triangles and Similar Shapes (Higher Only)</b>		
89	Similar triangles introduction		
90	Similar triangles part 1		
	<b>Topic - Pythagoras Theorem</b>		
135	Pythagoras theorem finding the longest side		
136	Pythagoras theorem finding the shorter side		
	<b>Topic - Right-angled Trigonometry</b>		
138	How to label a triangle		
139	Finding a length		
140	Finding an angle		
	<b>Topic - 3D Pythagoras (Higher Only)</b>		
148	3D Pythagoras in a cuboid		
	<b>Topic - 3D Right-angled Trigonometry (Higher Only)</b>		
150	3D Trigonometry in a cuboid		

	<b>Subject - Algebra</b>		
	<b>Topic - Trigonometric Graphs and Exact Values</b>		
209	Exact values of sin and cos - Part 1		
210	Exact values of sin and cos - Part 2		
211	Exact values of sin and cos - Part 3		
212	Exact values of sin, cos and tan - Exam Trick		
213	Finding the exact values of tan		