

Year 11 Higher GCSE Mathematics

Learning Intentions Autumn Term 2

2024 - 2025

	LESSON 1	LESSON 2	LESSON 3
WEEK 9 wc 4 th November	<ul style="list-style-type: none"> Find an amount after repeated percentage changes. Solve growth and decay problems. 	<ul style="list-style-type: none"> Convert between metric speed measures. Use a formula to calculate speed and acceleration. 	<ul style="list-style-type: none"> Solve problems involving compound measures.
WEEK 10 wc 11 th November	<ul style="list-style-type: none"> Use relationships involving ratio. Use direct and indirect proportion. 	<ul style="list-style-type: none"> Show that two triangles are congruent. Know the conditions of congruence. 	<ul style="list-style-type: none"> Prove shapes are congruent. Solve problems involving congruence.
WEEK 11 wc 18 th November	<ul style="list-style-type: none"> Use the ratio of corresponding sides to work out scale factors. 	<ul style="list-style-type: none"> Use similar triangles to work out lengths in real life. Use the link between linear scale factor and area scale factor to solve problems. 	<ul style="list-style-type: none"> Use the link between scale factors for length, area and volume to solve problems.
WEEK 12 wc 25 th November	<ul style="list-style-type: none"> Understand and use upper and lower bounds in calculations involving trigonometry. 	<ul style="list-style-type: none"> Understand how to find the sine of any angle. Know the graph of the sine function and use it to solve equations. 	<ul style="list-style-type: none"> Understand how to find the cosine of any angle. Know the graph of the cosine function and use it to solve equations.
WEEK 13 wc 2 nd December	<ul style="list-style-type: none"> Understand how to find the tangent of any angle. 	<ul style="list-style-type: none"> Find the area of a triangle and a segment of a circle. 	<ul style="list-style-type: none"> Use the cosine rule to solve 2D problems.

	<ul style="list-style-type: none"> • Know the graph of the tangent function and use it to solve equations. 	<ul style="list-style-type: none"> • Use the sine rule to solve 2D problems. 	
WEEK 14 wc 9 th December	<ul style="list-style-type: none"> • Solve bearings problems using trigonometry. 	<ul style="list-style-type: none"> • Use Pythagoras' theorem in 3D. 	<ul style="list-style-type: none"> • Use trigonometry in 3D.
WEEK 15 wc 16 th December	<ul style="list-style-type: none"> • Recognise how changes in a function affect trigonometric graphs, including reflections. 	<ul style="list-style-type: none"> • Recognise how changes in a function affect trigonometric graphs, including translations. 	<ul style="list-style-type: none"> • Check, strengthen & extend – further trigonometry.