

Mathematics Year 10 Higher

Learning Intentions Spring Term 1

2024-2025

	LESSON 1	LESSON 2	LESSON 3	LESSON 4
WEEK 17 wc 13 th January	<ul style="list-style-type: none"> Derive and use the sum of angles in a triangle and in a quadrilateral. Derive and use the fact that the exterior angle of a triangle is equal to the sum of the two opposite interior angles. 	<ul style="list-style-type: none"> Calculate the sum of the interior angles of a polygon. Use the interior angles of polygons to solve problems. 	<ul style="list-style-type: none"> Know and use the sum of the exterior angles of a polygon. 	<ul style="list-style-type: none"> Use the angles of polygons to solve problems.
WEEK 18 wc 20 th January	<ul style="list-style-type: none"> Calculate the length of the hypotenuse in a right-angled triangle. 	<ul style="list-style-type: none"> Calculate the length of a shorter side in a right-angled triangle. 	<ul style="list-style-type: none"> Solve problems using Pythagoras' theorem. 	<ul style="list-style-type: none"> Use trigonometric ratios to find lengths in a right-angled triangle.
WEEK 19 wc 27 th January	<ul style="list-style-type: none"> Use trigonometric ratios to calculate an angle in a right-angled triangle. 	<ul style="list-style-type: none"> Use trigonometric ratios to solve problems. 	<ul style="list-style-type: none"> Find angles of elevation and angles of depression. 	<ul style="list-style-type: none"> Know the exact values of the sine, cosine and tangent of some angles.
WEEK 20 wc 3 rd February	<ul style="list-style-type: none"> Use the product rule for finding the number of outcomes for two or more events. 	<ul style="list-style-type: none"> List all the possible outcomes of two events in a sample space diagram. 	<ul style="list-style-type: none"> Find the probabilities of mutually exclusive outcomes and events. Find the probability of an event not happening. 	<ul style="list-style-type: none"> Decide if two events are independent. Draw and use tree diagrams to calculate conditional probability.
WEEK 21 wc 10 th February	<ul style="list-style-type: none"> Draw and use tree diagrams without replacement. 	<ul style="list-style-type: none"> Use two-way tables to calculate conditional probability. 	<ul style="list-style-type: none"> Use Venn diagrams to calculate conditional probability. 	<ul style="list-style-type: none"> Use set notation to describe probability.