

## Year 11 Foundation Mathematics

### Learning Intentions Autumn Term 2

2024 - 2025

	LESSON 1	LESSON 2	LESSON 3
WEEK 9 wc 4 <sup>th</sup> November	<ul style="list-style-type: none"> <li>• Calculate a percentage profit or loss.</li> <li>• Express a given number as a percentage of another in more complex situations.</li> </ul>	<ul style="list-style-type: none"> <li>• Find the original amount given the final amount after a percentage increase or decrease.</li> </ul>	<ul style="list-style-type: none"> <li>• Find an amount after repeated percentage change.</li> </ul>
WEEK 10 wc 11 <sup>th</sup> November	<ul style="list-style-type: none"> <li>• Solve growth and decay problems.</li> </ul>	<ul style="list-style-type: none"> <li>• Solve problems involving compound measures.</li> </ul>	<ul style="list-style-type: none"> <li>• Convert between metric speed measures.</li> <li>• Calculate average speed, distance and time.</li> </ul>
WEEK 11 wc 18 <sup>th</sup> November	<ul style="list-style-type: none"> <li>• Use formulae to calculate speed and acceleration.</li> </ul>	<ul style="list-style-type: none"> <li>• Use ratio and proportion in measures and conversions.</li> <li>• Use inverse proportions.</li> </ul>	<ul style="list-style-type: none"> <li>• Understand and draw plans and elevations of 3D shapes.</li> <li>• Sketch 3D shapes based on their plans and elevations.</li> </ul>
WEEK 12 wc 25 <sup>th</sup> November	<ul style="list-style-type: none"> <li>• Make accurate drawings of triangles using a ruler, protractor and compasses.</li> <li>• Identify SSS, ASA, SAS and RHS triangles as unique from a given description.</li> <li>• Identify congruent triangles.</li> </ul>	<ul style="list-style-type: none"> <li>• Use scales on maps and diagrams to work out lengths and distances.</li> <li>• Know when to use exact measurements and estimations on scale drawings and maps.</li> <li>• Draw lengths and distances correctly on given scale drawings</li> </ul>	<ul style="list-style-type: none"> <li>• Draw accurately using rulers and compasses.</li> <li>• Bisect angles and lines using rulers and compasses.</li> </ul>

WEEK 13 wc 2nd December	<ul style="list-style-type: none"> <li>• Draw loci for the path of points that follow a given rule.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify regions bounded by loci to solve practical problems.</li> </ul>	<ul style="list-style-type: none"> <li>• Find and use three-figure bearings.</li> <li>• Use angles at parallel lines to work out bearings.</li> </ul>
WEEK 14 wc 9 <sup>th</sup> December	<ul style="list-style-type: none"> <li>• Solve problems involving bearings and scale diagrams.</li> </ul>	<ul style="list-style-type: none"> <li>• Review trigonometry to find a missing side.</li> </ul>	<ul style="list-style-type: none"> <li>• Review trigonometry to find a missing angle.</li> </ul>
WEEK 15 wc 16 <sup>th</sup> December	<ul style="list-style-type: none"> <li>• Solve problems involving trigonometry including angles of elevation/depression and bearings.</li> </ul>	<ul style="list-style-type: none"> <li>• Review experimental probability and venn diagrams.</li> </ul>	<ul style="list-style-type: none"> <li>• Review tree diagrams.</li> </ul>