Subject: Year 11 Foundation	**Autumn HT 1**	**Autumn HT 2**	**Spring HT 1**	**Spring HT 2**	**Summer HT 1 –**
	Unit 14: Multiplicative reasoning - Apply speed, density and pressure formulae - Calculate percentage of amounts, change, reverse and compound interest. -Ratio and proportion problems including growth and decay. -Direct and indirect proportion. Unit 15: Plans and elevations, constructions, loci and bearings - Measure and draw lines and angles accurately. - Draw and interpret plans and elevations. -Construct triangles and angles. - Use constructions in loci problems. - Use and interpret maps and scale diagrams. Unit 16: Quadratic equations: expanding, factorising and graphs	Unit 17: Perimeter, area and volume 2: circles, cylinders, cones and spheres - Recall and apply formulae for the area and circumference of a circle and its parts. - Calculate the surface area and volume of a cylinder, sphere, pyramids, cones and composite solids. Unit 18: More fractions, reciprocals, standard form, zero and negative indices - Apply the four operations to fractions and mixed numbers. - Use order of operations, including brackets, powers, roots and reciprocals. - Calculate with and interpret standard form. - Calculate with and interpret index laws. Unit 19: Congruence, similarity and vectors - Understand and apply congruence and	Responsive teaching based upon November Mock exam question level analysis.	Responsive teaching based upon February Mock exam question level analysis.	Responsive teaching based upon February Mock exam question level analysis.

	- Quadratic equations: expand, factorise and solve. - Plot quadratic graphs and use the graph to identify key points and apply to real-life problems.	similarity to shapes and real-life problems. - Transformations. - Vectors- addition, subtraction and multiplication by a scalar. <u>Unit 20: Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations</u> - Rearrange equations and solve, including real-life problems. - Recognise, sketch and interpret graphs of cubic and reciprocal functions. - Form and solve linear simultaneous equations algebraically and graphically.			