Year 11 – Foundation

Learning Landmark (LL) assessments:

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
LL1: Foundation GCSE Exam Paper	LL2: Foundation GCSE Exam Paper (Mock 1)	LL3: Foundation GCSE Exam Paper	LL4: Foundation GCSE Exam Paper (Mock 2)	N/A	N/A

Content Covered:

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Theme 1: Number & Calculation	**Theme 6: Sequences**	**Theme 8: Geometry**	**Revision**	**Revision**	**N/A**
Revision of previous content	Revision of previous content	Revision of content			
Multi-step problems involving addition, subtraction, multiplication, division, powers and roots	Recognise and describe geometric sequences	Surface area of spheres and cones			
The order of operations including powers and roots (BIDMAS)	Finding missing terms in a geometric sequence	Surface area of a composite solid (shapes made up of 2 or more 3D shapes)			
Theme 2: Shapes & Angles	Combine geometric sequences with fractions and surds	Solve practical problems involving surface area			
Revision of previous year's content in this area	Solve problems involving geometric sequences	Volume of spheres and cones			
Solving problems involving loci	Non-standard sequences	Volume of a composite solid (shapes made up of 2 or more 3D shapes)			
Constructing the locus of points a fixed distance from a point & a line	**Theme 7: Data & Probability**	Solve practical problems involving Volume of solids (including algebra)			
Techniques to construct 2D shapes; e.g. rhombus	Revision of previous year's content in this area	The ratio of corresponding sides in similar triangles is constant			
The conditions for triangles to be congruent and proofs	Harder set notation and link to section of Venn diagram	Trigonometry including trigonometric ratios			
Similar shapes with parallel lines and embedded shapes	Probability from Venn using set notation	Sine, cosine and tangent are functions of an angle			
Theme 3: Fractions, Decimals & Percentages	Sampling	Establish the exact values of sinθ and cosθ for θ = 0°, 30°, 45°, 60° and 90°			
Revision of previous content	Averages and range from a discrete frequency table	Exact value of tanθ for θ = 0°, 30°, 45° and 60°			

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Theme 4: Algebra	Comparing sets of data and the limitations of different statistics (mean, median, mode, range)	The sine, cosine and tangent of an angle			
Revision of previous year's content in this area	Combining means	Trigonometric equations to find missing side/angle in a right-angled triangle			
Quadratic equations including solving a quadratic in factorised form	Modal class of set of grouped data	Trigonometric equations when the unknown is in denominator of a fraction			
Quadratic equation of the form $x^2 + bx + c$ by factorising	Median of a set of data	Trigonometry to solve problems involving bearings			
Connections between graphs and quadratic equations	Mean from a grouped frequency table	Trigonometry to solve problems involving an angle of depression or an angle of elevation			
Solving quadratic equations using a graph	The range from a grouped frequency table	**Theme 9: Transformations & Graphs**			
Finding roots of quadratic functions graphically	Appropriate graphs or charts to represent data	Equation of a line through one point with a given gradient			
Interpreting intercepts of quadratic functions graphically	Frequency polygons	Graphs of quadratic functions			
Identify and interpret turning points of quadratic functions graphically	Scatter diagrams and correlation	Graphs of cubic functions			
Visual representations connected to the expanding of two binomials	Lines of best fit on a scatter diagram and use the line of best fit to estimate values	Graphs of reciprocal functions			
Factorise a quadratic into two linear expressions	Correlation and causation	Graphs of non-standard functions in real contexts			
Find roots of quadratic functions algebraically		Transformations on a 2D shape			
Change the subject of a formula		Enlargements by fractional scale factor with the centre of enlargement			
Solve simultaneous equations		Vectors			
Algebraic proof		Notations for vectors, including diagrammatic representation			
Theme 5: Ratio & Proportion		Add and subtract vectors			
Revision of previous content		Multiply a vector by a scalar			
Direct & inverse proportion inc. graphs, problems, finding the multiplier and using equations		Geometrical problems involving vectors			