

Curriculum Sequencing Overview – Year 11 Higher

Unit 1								
Week	1	2	3	4	5	6	7	8
Date wb	05/09/22	12/09/22	19/09/22	26/09/22	03/10/22	10/10/22	31/10/22	08/11/22
Key dates					Year 11 Assessment Week			
Big ideas (key concepts)	Collecting Data	CF, box plots and histograms	CF, box plots and histograms	Revision, assessment, and feedback	Quadratics, expanding, sketching graphs of circles cubes and quadratics		Circle Theorems	
Lesson topics sequence	Understand primary and secondary data sources Understand what is meant by a sample and a population Understand how different sample sizes may affect the reliability of conclusions Identify possible sources of bias and plan to minimise it Understand how the timing and location of a survey can ensure a sample is representative	Construct and interpret cumulative frequency tables, graphs and diagrams Estimate frequency, the median, quartile values and interquartile range from a cumulative frequency diagram Compare the mean and range of two distributions, or median and interquartile range Interpret box plots to find median, quartiles, range and interquartile range	Produce box plots from raw data and when given quartiles, median and identify any outliers Construct and interpret histograms Use and understand frequency density Complete a grouped frequency table from a histogram Estimate the mean and median from a histogram		Sketch a graph of a quadratic function Find approximate solutions to quadratic equations using a graph Expand the product of more than two linear expressions Sketch a graph of a quadratic and linear function Sketch graphs of simple cubic functions, given as three linear expressions Solve simultaneous equations graphically and find their approximate solutions Solve quadratic inequalities in one variable Represent the solution set for inequalities using set notation Solve linear inequalities in two variables graphically Show the solution set of several inequalities in two variables on a graph Use iteration with simple converging sequences		Identify and draw parts of a circle Prove and use the facts that: the angle subtended by an arc at the centre of a circle is twice the angle subtended at any point on the circumference the angle in a semicircle is a right angle the perpendicular from the centre of a circle to a chord bisects the chord angles in the same segment are equal alternate segment theorem opposite angles of a cyclic quadrilateral sum to 180° Understand and use the tangent at any point on a circle is perpendicular to the radius at that point Find and give reasons for missing angles on diagrams using: circle theorems; isosceles triangles; the angle between a tangent and radius is 90°; tangents from an external point are equal in length	
Key assessments				Unit 14 assessment		Unit 15 Assessment		Unit 1 KA

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Homework	1 x Half Paper Set 2A Paper 3H Calculator Higher Half Papers	1 x Half Paper Set 2B Paper 1H Non -Calculator Higher Half Papers	1 x Half Paper Set 2B Paper 2H Calculator Higher Half Papers	1 x Half Paper Set 2B Paper 3H Calculator Higher Half Papers	1 x Half Paper Set 3A Paper 1H Non -Calculator Higher Half Papers	1 x Half Paper Set 3A Paper 2H Calculator Higher Half Papers	1 x Half Paper Set 3A Paper 3H Calculator Higher Half Papers	1 x Half Paper Set 3B Paper 1H Non - Calculator Higher Half Papers
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