

Year 11 H	Unit 14	Unit 15	Unit 16	Unit 17	Unit 18	Unit 19	Unit 20	Unit 21
Topic/Theme/ Focus	<p>In this unit students will build on their knowledge of quadratics and inequalities from previous units.</p> <p>They will learn fundamental skills such as: Finding the roots of quadratics including algebraically, completing the square and the quadratic formula. Identify turning points and line of symmetry from completing the square. Sketch graphs of quadratic functions and sketch given the roots.</p>	<p>In this unit students will further develop their understanding of statistics.</p> <p>They will learn skills such as: Draw and interpret box plots and cumulative frequency tables and diagrams. Draw and interpret histograms.</p>	<p>In this unit students will further develop their understanding of algebra.</p> <p>They will learn new skills such as: Simplifying algebraic fractions. Solving linear and quadratic equations involving algebraic fractions. Simplifying more complex expressions involving surds. Working with functions. Algebraic proof.</p>	<p>In this unit students will develop their understanding of constructions.</p> <p>They will cover fundamental skills such as: Construct triangles using a ruler and compass. Construct a perpendicular bisector. Bisect an angle using a ruler and compass.</p>	<p>In this unit students will be introduced to vectors.</p> <p>They will learn new skills such as: Understand and use vector notation. Calculate using vectors and represent the solutions graphically. Solve geometric problems in two dimensions using vector methods.</p>	<p>In this unit students will be introduced to circle theorems.</p> <p>They will learn new skills such as: Apply circle theorems involving: chords and radii; angles in semi circles; angles subtended at the centre and the circumference of circles; tangents to circles; cyclic quadrilaterals; alternate segments.</p>	<p>In this unit students will further develop their understanding of proportion and graphs.</p> <p>They will learn new skills such as: Solve more formal problems involving quantities in direct and inverse proportion. Transformations of graphs, including translations, reflections and stretch.</p>	<p>In this unit students will be introduced to advanced trigonometry.</p> <p>They will learn new skills such as: Using and applying the sine rule and cosine rule. Solving problems in 3-dimensions using Pythagoras' theorem and trigonometry. Drawing and transforming the graphs of trigonometric functions.</p>
Corbett Maths Videos	118-120, 265-267, 371, 378	149-150, 153-154, 157-159	21-24. 307-308, 365	325, 326, 272-275, 104-108, 283-284, 75-80, 26, 27	353, 353a	64-65f	254-255, 323, 345	333, 334-340, 324

Key vocabulary	Quadratic, parabola, turning point, inequality, roots, factorise, expand	Median, quartiles, frequency density	Quadratic, factor, rationalise denominator, proof	Scale Factor, bisect, perpendicular, construct	Vector, scalar, collinear, magnitude, displacement	Tangent, radii, segment, cyclic, theorem, alternate segment	Inequality, Generate, linear, common difference, term	Quadratic, factorise, expand, parabola.
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