

Year 8	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
<b>Topic/Theme/ Focus</b>	<p>In this unit students will develop representation in maths.</p> <p>They will cover fundamental knowledge such as: Working with coordinates in the four quadrants. Identifying and drawing lines parallel to the axes. Recognising and using the lines <math>y=x</math> and <math>y=kx</math>. Learning and developing the vocabulary used in probability. Using the knowledge that the sum of all possible outcomes is 1, to calculate probabilities of events.</p>	<p>In this unit students will be learning algebraic techniques.</p> <p>They will cover fundamental knowledge such as: Expanding brackets. Forming and solving equations. Adding and subtracting expressions involving indices.</p>	<p>In this unit students will be developing number skills.</p> <p>They will cover fundamental knowledge such as: Developing understanding of equivalences between fractions, decimals and percentages. Finding FDP of amounts both with and without the use of a calculator. Evaluating percentage increases and decreases. Writing numbers as powers of 10. Converting between metric measures and units. Estimating numbers.</p>	<p>In this unit students will be developing geometry skills.</p> <p>They will cover fundamental knowledge such as: Calculating areas of trapeziums and circles. Recognising lines of symmetry in polygons and other 2d shapes.</p>	<p>In this unit students will be reasoning with data in maths.</p> <p>They will cover fundamental knowledge such as: Collecting data and evaluating questionnaires for bias. Interpreting and constructing statistical diagrams including pictograms, bar charts, dual bar charts and line graphs.</p>
<b>Corbett Maths Videos</b>	186,192,193,198, 246, 380, 383	13-15,117, 176-184, 267, 269, 105-106	121-126, 238-239, 300-303, 349-350, 215	40,41,46,47, 316, 272-274,68-83	342, 343, 343a, 147, 148, 163, 164, 157-159
<b>Key vocabulary</b>	coordinates, plot, gradient, substitute, y intercept, linear Impossible, likely, even, unlikely, certain, random, bias, event	Expand, bracket, coefficient, product, equation, form, solve, unknown, expression, simplify, term, index, indices, power	fractions, decimals, percentages, equivalent, increase, decrease, percentage change, multiplier, original, powers, negative, positive, standard form, integer, metric, unit, Sl, litres, millilitres, centimetres, metres, millimetres, estimating, rounding, significant figures	trapezium, circle, area, radius, parallel, perpendicular height, compound shapes, arc, tangent, sector, segment, diameter, reflect, polygons, horizontal, vertical	primary, secondary, data, questionnaires, bias, pictograms, graphs, charts, representation, bar charts, dual bar charts, line graphs, discrete, continuous