

Year 7	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Topic/Theme/ Focus	<p>In this unit students will develop knowledge and understanding on place value and application of number.</p> <p>They will cover fundamental knowledge such as: Recognising place value of integers and decimals. Rounding integers and decimals. Developing knowledge and understanding surrounding the properties of the four operations including learning mental and formal strategies. Understanding and using factors and multiples. Perimeter and area of shapes.</p>	<p>In this unit students will be introduced to reasoning with number and proportion.</p> <p>They will cover fundamental knowledge such as: Finding equivalent fractions and simplifying fractions. Finding fractions and percentages of amounts both with and without the use of a calculator. Understanding the meaning, representation and notation of ratio. Expressing ratios in their simplest form and learn to divide a value into a given ratio.</p>	<p>In this unit students will learn algebraic thinking.</p> <p>They will cover fundamental knowledge such as: Understanding the meaning of like and unlike terms. Using function machines to calculate inputs and outputs. Solving linear equations. Describing, continuing, predicting and checking terms in a sequence.</p>	<p>In this unit students will study directed number.</p> <p>They will cover fundamental knowledge such as: Ordering directed numbers. Adding and subtracting directed numbers. Using a calculator to perform calculations involving directed numbers.</p>	<p>In this unit students will further develop knowledge and understanding on lines and angles.</p> <p>They will cover fundamental knowledge such as: Drawing and measuring lines and angles using correct mathematical equipment. Recognising types of triangles, quadrilaterals and other polygons. Identifying 3d shapes and using the terms face, edge, vertex and surface correctly. Understanding parallel and perpendicular lines.</p>
Corbett Maths Videos	222, 276-280, 6, 304, 199, 98, 241, 320, 44, 45, 48, 49	121-131, 234,235, 269-271	16, 9, 19, 386, 20, 115, 110, 290, 288	208, 205-207, 211, 20, 110,	28,29,31,39,7,1,2,327,3,5,328, 25 35 39
Key vocabulary	Place value, integer, units, tens, hundreds, thousands, place holder, decimal, significant figure, difference, product, inverse, perpendicular height, triangle, rectangle, parallelogram, trapezium	Equivalent, numerator, denominator, multiple, fraction, percentage, ratio, proportion, integer	Algebra, variable, unknown, like, unlike, terms, equivalence, function, inverse, input, output, expression, evaluate, substitute, solve, sequence, term, position, linear	Positive, negative, zero, ascending, descending, greater than, less than, equal, difference, addition, subtraction, product, multiply,	acute, obtuse, reflex, protractor, quadrilateral, properties, rectangle, triangle, scalene, right angle, pentagon, equilateral, hexagon, heptagon, octagon, parallelogram, kite, face, edge, vertex, vertices, surface, volume, cube, cuboid, cylinder, pyramid, cone, sphere, parallel, perpendicular