

Year 7	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
<b>Topic/Theme/ Focus</b>	<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.</p>	<p>In this unit students will 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. Work with similar shapes and enlargements.</p>	<p>In this unit students will be reasoning with data in maths.</p> <p>They will cover fundamental knowledge such as: Measures of averages and spread. Analysing and comparing data. Collecting data and evaluating questionnaires for bias. Interpreting and constructing statistical diagrams including frequency trees, two way tables, pictograms, bar charts, dual bar charts and line graphs.</p>	<p>In this unit students will study directed number.</p> <p>They will cover fundamental knowledge such as: Ordering directed numbers. Four operations with directed numbers. Using a calculator to perform calculations involving directed numbers. Understanding order of operations.</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. Working with coordinates in the four quadrants. Using function machines to calculate inputs and outputs. Solving linear equations.</p>	<p>In this unit students will be developing geometry skills.</p> <p>They will cover fundamental knowledge such as: Calculating perimeter and area. Calculating surface area and volume.</p>
<b>Corbett Maths Videos</b>	222, 276-280, 6, 304, 199, 98, 241, 320, 44, 45, 48, 49	28,29,31,39,7,1,2,327,3,5,328, 25 35 39	342, 343, 343a, 147, 148, 163, 164, 157-159	208, 205-207, 211, 20, 110,	16, 9, 19, 386, 20, 115, 110, 290, 288	40,41,46,47, 316, 272-274,68-83

<b>Key vocabulary</b>	Place value, integer, units, tens, hundreds, thousands, place holder, decimal, significant figure, difference, product, inverse	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, similar, enlargement, cylinder, pyramid, cone, sphere, parallel, perpendicular	primary, secondary, data, questionnaires, bias, pictograms, graphs, charts, representation, bar charts, dual bar charts line graphs, discrete, continuous	Positive, negative, zero, ascending, descending, greater than, less than, equal, difference, addition, subtraction, product, multiply	Algebra, variable, unknown, like, unlike, terms, equivalence, function, inverse, input, output, expression, evaluate, substitute, solve	trapezium, area, parallel, perpendicular height, compound shapes
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