



KS4 Curriculum Content

**Learning Support
Mathematics**

In Learning Support Maths, pupils will be working on developing their maths foundational skills which will help them to perform better in their maths lessons and also in their GCSE.

Each topic splits skills into Entry Level 1 (EL1), Entry Level 2 (EL2) and Entry Level 3 (EL3). Teachers will ensure that students can complete the objectives from EL1 before moving onto EL2 and then, if appropriate, EL3.

Year 1	Half Term 1 September - October	Half Term 2 October - December	Half Term 3 January - February
	<p>Topic: Number - Count</p> <p>Entry Level 1 Knowledge/skills Count up to 10, knowing the number names (1.1) pp 2-5</p> <p>Count small sets of objects, checking the total (1.2) pp 2-5</p> <p>Entry Level 2 Knowledge/skills Count up to 100, knowing the number names (1.3) pp 38-40 pp 44-46</p> <p>Count collections of objects, checking the total (1.4) pp 38-40 pp 44-46</p> <p>Recognise odd and even numbers (1.5) pp 172-174</p> <p>Count on in steps of different sizes (1.6) pp 50-52</p>	<p>Topic: Geometry – 2D Shapes</p> <p>Entry Level 1 Knowledge/skills Describe and discuss simple 2D shapes (10.1) pp 11-12 pp 26-27</p> <p>Use the mathematical names for rectangle and circle (10.2) pp 96-98 (Squares and rectangles)</p> <p>Recognise and use simple geometric features of simple 2D shapes (10.3) pp 11-12 pp 30-31</p> <p>Entry Level 2 Knowledge/skills Use the mathematical names for common 2D shapes (10.4) pp 96-98 pp 105-107</p> <p>Entry Level 3 Knowledge/skills Use the mathematical names for additional 2D shapes (10.5) pp 147-149</p>	<p>Topic: Number – Consolidation and Number – Fractions and decimals</p> <p>Entry Level 1 Knowledge/skills Consolidation of Number: Count (1.1) (1.2) Number: Read, write and order (2.1) Number: Pattern (4.1) (4.2)</p> <p>Entry Level 2 Knowledge/skills Consolidation of Number: Count (1.3) (1.4) (1.5) (1.6) Number: Read, write and order (2.2) Number: Pattern (4.3) (4.4)</p> <p>Entry Level 3 Knowledge/skills Recognise and use in context simple fractions, including thirds in context, decimal notation in recording money and length (3.4) pp 179-186</p> <p>Recognise the equivalence of very simple fractions (3.5) p 182</p> <p>Recognise simple equivalents (3.6)</p> <p>Recognise unit fractions and use them to find fractions of shapes and numbers (3.7)</p>

	<p>Read, write and order numbers to 100, developing an understanding that the position of a digit signifies its value (2.2) pp 38-40</p> <p>Entry Level 3 Knowledge/skills</p> <p>Count up to 1000, knowing the number names (1.7 part) p 49 pp 128-133</p> <p>Describe and extend simple number sequences (1.8) pp 155-157</p> <p>Count on or back in tens or hundreds from any two- or three-digit number (1.9, 1.10) pp 155-7</p> <p>Topic: Number – Read, write and order</p> <p>Entry Level 1 Knowledge/skills Read, write and order numbers to 10 (2.1) pp 4-5 pp 22-23</p> <p>Entry Level 2 Knowledge/skills Read, write and order numbers to 100, developing an understanding that the position of a digit signifies its value (2.2) pp 38-40</p>	<p>pp 218-221</p> <p>Recognise reflective symmetry in simple cases (10.6) pp 143-146</p> <p>Sort shapes according to mathematical criteria (10.7)</p> <p>Topic: Number – Fractions and decimals</p> <p>Entry Level 1 Knowledge/skills Recognise and use halves (3.1) pp 168-171</p> <p>Entry Level 2 Knowledge/skills Recognise and use halves of numbers up to 10 in context (3.2) pp 172-174</p> <p>Recognise and use quarters (3.3) pp 175-178</p> <p>Entry Level 3 Knowledge/skills Halve even two-digit numbers with even tens (4.7)</p> <p>Double numbers up to 50 (4.8)</p> <p>Halve even two-digit numbers with odd tens (4.9)</p>	<p>Recognise simple fractions that are several parts of a whole and be able to shade shapes to illustrate those fractions (3.8)</p> <p>Find fractional quantities of numbers up to 20 (3.9)</p> <p>Topic: Number - Facts</p> <p>Entry Level 1 Knowledge/skills Use apparatus to add and subtract numbers to 10 (5.1) pp 13-17 pp 18-21 pp 34-35 (with a calculator)</p> <p>Entry Level 2 Knowledge/skills Know addition and subtraction facts for each number to 10 (5.2) pp 64-66</p> <p>Entry Level 3 Knowledge/skills Know all addition and subtraction facts for each number to 20 (5.3) pp 134-137</p>
--	---	--	---

Entry Level 3 Knowledge/skills

Read, write and order numbers up to 1000 (1.7 part)

p 49

pp 128-133

Know what each digit represents (2.3)

pp 128-33

Round any positive integer less than 100 to the nearest 10 (2.4)

Order a given set of positive and negative integers, including placing them on a number line (2.5)

pp 199-202

Topic: Number - Pattern

Entry Level 1 Knowledge/skills

Understand the operation of addition, subtraction as taking away and the relationship between them (4.1)

pp 13-17

Recognise situations to apply and use the operations to solve problems with whole numbers up to 10 (4.2)

pp 13-21

Entry Level 2 Knowledge/skills

Use repeating patterns to develop ideas of regularity and sequencing (4.3)

pp 41-43

Explore and record patterns in addition and subtraction, explaining the patterns and using them to make predictions (4.4)

pp 84-87

	<p>Entry Level 3 Knowledge/skills</p> <p>Explore and record patterns in addition and subtraction and the pattern of multiples, e.g. 3, 6, 9, 12, explaining the patterns and using them to make predictions (4.5) pp 155-157 pp 207-209 pp 210-213</p> <p>Know and use halving as the inverse of doubling (4.6)</p>		
Vocabulary Links	count, total, odd, even, sequence, describe, tens, hundreds, order, round, integer, positive, negative, addition, subtraction, operations, multiples, half, inverse, double	Rectangle, square, circle, triangle, pentagon, symmetry, halve, quarter, double	Count, order, fraction, thirds, equivalent, unit fractions, whole, add, subtract
Assessment Objectives	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 1.10, 2.1, 2.2, 2.3, 2.4, 2.5, 4.1, 4.3, 4.3, 4.4, 4.5, 4.6	3.1, 3.2, 3.3, 4.7, 4.8, 4.9, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 2.2, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.3, 4.4, 5.1, 5.2, 5.3

Year 1	Half Term 4 February – March	Half Term 5 April - May	Half Term 6 June - July
	<p>Topic: Geometry – 3D Shapes</p> <p>Entry Level 1 Knowledge/skills Describe and discuss simple 3D shapes (11.1)</p> <p>pp 11-12 pp 28-29</p> <p>Entry Level 2 Knowledge/skills Use the mathematical name for a cube (11.2)</p> <p>pp 114-115</p> <p>Recognise and use the following geometric features of 3D shapes: vertices, edges, faces (11.3)</p> <p>pp 114-115</p> <p>Entry Level 3 Knowledge/skills Use the mathematical names for additional 3D shapes (11.4)</p> <p>pp 228-229</p> <p>Recognise and use the geometric features of 3D shapes, including vertices, edges and faces; cubes, cuboids, pyramids, cylinders, cones and spheres (11.5)</p> <p>p 229</p>	<p>Topic: Number consolidation and Number - Operations</p> <p>Entry Level 1 Knowledge/skills Consolidation of Number: Facts (5.1)</p> <p>Entry Level 2 Knowledge/skills Add and subtract one- and two-digit numbers, and use addition and subtraction to solve problems (6.1)</p> <p>pp 118-119</p> <p>Understand the operations of multiplication and division, and use them to solve problems with whole numbers, money or measures (6.2)</p> <p>p 119</p> <p>Entry Level 3 Knowledge/skills Add and subtract one-, two- and three-digit numbers (6.3)</p> <p>pp 134-137 pp 138-142</p> <p>Interpret a calculator display as money (3.10)</p> <p>pp 183-186</p> <p>Use a calculator to add and subtract money (3.11)</p>	<p>Practice task</p> <p>Revision and assessment</p>

	<p>Topic: Geometry consolidation and Number - Facts</p> <p>Entry Level 1 Knowledge/skills Consolidation of Geometry: 3D shapes (11.1)</p> <p>Entry Level 2 Knowledge/skills Consolidation of Geometry: 3D shapes (11.2) (11.3)</p> <p>Entry Level 3 Knowledge/skills Know multiplication and division facts relating to the 2s, 3s, 4s, 5s, and 10s and use these to derive other facts, and to develop mental methods for finding new results (5.4)</p> <p>p 211 pp 222-225 pp 233-234</p> <p>Identify pairs of factors of numbers up to 50 (5.5)</p>	<p>pp 183-186</p> <p>Understand and deal appropriately with remainders, including simple problems in context (6.4)</p> <p>pp 226-227</p> <p>Multiply a two-digit number by a single digit (6.5)</p> <p>Understand and use the different vocabulary for the four rules of number (6.6)</p> <p>Topic: Geometry – Position, movement and pattern</p> <p>Entry Level 1 Knowledge/skills Describe positions using common words (13.1)</p> <p>pp 32-33</p> <p>Copy, continue and make patterns (13.2)</p> <p>pp 9-10</p> <p>Entry Level 2 Knowledge/skills Recognise movements in a straight line and rotations (13.3)</p> <p>pp 111-113</p> <p>Entry Level 3 Knowledge/skills</p>	
--	--	--	--

		<p>Recognise movements in a straight line and rotations, and combine them in simple ways (13.4)</p> <p>pp 158-161</p> <p>Use mathematical vocabulary to describe position, direction and movement (13.5)</p> <p>Read and plot coordinates in the first quadrant (13.6)</p>	
Vocabulary Links	3D, cube, vertices, edges, faces, cuboid, pyramid, cylinder, cone, sphere, division, multiplication, factors	Add, subtract, multiplication, division, remainder, position, straight line, rotation, coordinate	
Assessment Objectives	11.1, 11.2, 11.3, 11.4, 11.5, 5.4, 5.5	5.1, 6.1, 6.2, 6.3, 3.10, 3.11, 6.4, 6.5, 6.6. 13.1, 13.2, 13.3, 13.4, 13.5, 13.6	

Year 2	Half Term 1 September - October	Half Term 2 October - December	Half Term 3 January - February
Curriculum content	<p>Topic: Measures – Measuring instruments</p> <p>Entry Level 1 Knowledge/skills Use simple measuring instruments (16.1)</p> <p>pp 53-56 pp 196-198</p> <p>Entry Level 2 Knowledge/skills Choose and use simple measuring instruments (16.2)</p> <p>pp 53-56</p> <p>Entry Level 3 Knowledge/skills Choose and use simple measuring instruments, reading and interpreting number and scales with some accuracy (16.3)</p> <p>Use a protractor to measure acute and obtuse angles to the nearest 10° (16.4)</p> <p>Topic: Measures - Units</p> <p>Entry Level 1 Knowledge/skills Compare objects and events using appropriate language for direct comparison (15.1)</p>	<p>Topic: Number consolidation</p> <p>Entry Level 1 Knowledge/skills Consolidation of Number: Count (1.1) (1.2) Number: Read, write and order (2.1) Number: Pattern (4.1) (4.2) Number: Facts (5.1)</p> <p>Entry Level 2 Knowledge/skills Consolidation of Number: Count (1.3) (1.4) (1.5) (1.6) Number: Read, write and order (2.2) Number: Pattern (4.3) (4.4) Number: Facts (5.2) Number: Operations (6.1) (6.2)</p> <p>Topic: Algebra and ratio and proportion</p> <p>Entry Level 3 Knowledge/skills Solve very basic equations (8.1)</p> <p>Collect like terms (8.2)</p> <p>Use simple word formulae (8.3)</p> <p>Use direct proportion in simple problems (9.1)</p>	<p>Topic: Statistics</p> <p>Entry Level 1 Knowledge/skills Sort and classify a set of objects or pictures (17.1)</p> <p>pp 24-25</p> <p>Extract information from lists (17.2)</p> <p>pp 74-76</p> <p>Entry Level 2 Knowledge/skills Sort and classify a set of objects using criteria related to their properties (17.3)</p> <p>pp 62-63 pp 116-117</p> <p>Collect, record and read data arising from an area of interest, using tally charts, data-collection sheets, bar charts, pictograms and simple tables (17.4)</p> <p>pp 74-83</p> <p>Entry Level 3 Knowledge/skills Collect, record, read and interpret data arising from an area of interest, using tally charts with frequency column, data-collection sheets, bar charts, pictograms and tables (17.5)</p>

	<p>pp 6-8</p> <p>Entry Level 2 Knowledge/skills</p> <p>Compare objects and events using appropriate language for direct comparison using common standard units (15.2)</p> <p>pp 53-56</p> <p>Entry Level 3 Knowledge/skills</p> <p>Use a wider range of standard units, including standard units of time, choosing units appropriate to a situation (15.3)</p> <p>Estimate with these units (15.4)</p> <p>Express a length given in metres and in centimetres. Express a price given in pounds and in pence (15.5)</p> <p>Work with time, including 12-hour and 24-hour clocks (15.6)</p>		Read simple pie charts (17.6)
Vocabulary Links	Measure, ruler, interpret, scales, protractor, acute, obtuse, convert, minutes, hours, length, time	Write, order, operations, solve, collect like terms, formulae, direct proportion	Sort, classify, interpret, collect, record, tally chart, list, data collection sheets, pictograms, tables, frequency, bar chart, pie charts
Assessment Objectives	15.1, 15.2, 15.3, 15.4 15.5, 15.6, 16.1, 16.2 16.3 16.4	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 2.2, 4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 6.1, 6.2, 8.1, 8.2, 8.3, 9.1	17.1, 17.2, 17.3, 17.4, 17.5, 17.6

Year 2	Half Term 4 February – March	Half Term 5 April - May	Half Term 6 June - July
	<p>Topic: Geometry consolidation</p> <p>Entry Level 1 Knowledge/skills Consolidation of Geometry: 2D shapes (10.1) (10.2) (10.3) Geometry: 3D shapes (11.1)</p> <p>pp 11-12 pp 28-29</p> <p>Entry Level 2 Knowledge/skills Consolidation of Geometry: 2D shapes (10.4) Geometry: 3D shapes (11.2) (11.3)</p> <p>Topic: Geometry – Perimeter and area</p> <p>Entry Level 3 Knowledge/skills Find perimeter of a rectangle by adding lengths of sides (12.1)</p> <p>Find area of a rectangle by counting squares (12.2)</p> <p>Find the area of a rectangle by multiplying length by width (12.3)</p>	<p>Practice task</p> <p>Revision and assessment</p>	<p>Practice task</p> <p>Revision and assessment</p>
Vocabulary Links	2D, 3D, perimeter, area, lengths, add, rectangle, width, multiply		
Assessment Objectives	10.1, 10.2, 10.3, 10.4, 11.1, 11.2, 11.3, 12.1, 12.2, 12.3, 14.1, 14.2		