

## Curriculum Overview – Mathematics – 2023/24

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	<p><b>Higher:</b> Assessments Place value; addition; subtraction; word problems; Multiplication Division</p> <p><b>Lower:</b> Assessments Place value; addition; subtraction; word problems</p> <p><b>Cross Curricular Links:</b> <i>Science, DT, Food Tech, ICT RRSA – Articles 28 &amp; 29</i></p>	<p><b>Higher:</b> Multiplication Division Fractions</p> <p><b>Lower:</b> Multiplication Division Fractions</p> <p><b>Cross Curricular Links:</b> <i>Science, DT, Food Tech, ICT RRSA – Articles 28 &amp; 29</i></p>	<p><b>Higher:</b> Units of measure: length, mass &amp; capacity Fractions, Decimals and percentages</p> <p><b>Lower:</b> Measurements and length &amp; height Fractions Statistics Position &amp; direction</p> <p><b>Cross Curricular Links:</b> <i>Science, DT, Food Tech, ICT, Forest schools, Outdoor Ed. RRSA – Articles 28 &amp; 29</i></p>	<p><b>Higher:</b> <b>Position &amp; direction</b> <b>Converting units</b> <b>Ratio</b></p> <p><b>Lower:</b> Measurement, mass and capacity Temperature</p> <p><b>Cross Curricular Links:</b> <i>Science, DT, Art, Food Tech, ICT, Outdoor Ed. RRSA – Articles 28 &amp; 29</i></p>	<p><b>Higher:</b> Statistics – pictographs, bar graphs, tables Properties of shapes.</p> <p><b>Lower:</b> Money Time properties of shapes</p> <p><b>Cross Curricular Links:</b> <i>Science, DT, Art, Food Tech, ICT, PE, Outdoor Ed RRSA – Articles 28 &amp; 29</i></p>	<p><b>Higher:</b> Perimeter, area and volume Converting units</p> <p><b>Lower:</b> Perimeter &amp; area</p> <p><b>Transition</b> Assertive Mentoring</p> <p><b>Cross Curricular Links</b> <i>Science, DT, Art, Food Tech, ICT, PE, Outdoor Ed RRSA – Articles 28 &amp; 29</i></p>
8	<p><b>Set 1</b> Number and place value Addition and subtraction Multiplication and division Statistics (based on ability)</p> <p><b>Set 2</b> Assessments Place value; addition; subtraction; word problems, multiplication and division</p> <p><b>Cross Curricular Links:</b> <i>ICT – spreadsheets and databases Vocabulary - equals, place value</i></p>	<p><b>Set 1</b> Measurement Length and Perimeter Area Multiplication and Division Fractions</p> <p><b>Set 2</b> Multiplication Division, measurement, addition and subtraction</p> <p><b>Cross Curricular Links:</b> <i>Vocabulary -numerator, denominator</i></p>	<p><b>Set 1</b> Multiplication and Division Area Fractions Decimals Percentages Algebra</p> <p><b>Set 2</b> Measurements and length Fractions Statistics Height, mass and capacity</p> <p><b>Cross Curricular Links:</b> <i>IT –robotics and programming Vocabulary – orientation, degrees</i></p> <p><b>RRSA</b> 26</p>	<p><b>Set 1</b> <b>Ratio</b> <b>Algebra</b> <b>Converting units</b></p> <p><b>Set 2</b> <b>Fractions</b> <b>Decimals</b></p> <p><b>Cross Curricular Links:</b> <i>Vocabulary – volume, mass, density</i></p>	<p><b>Set 1</b> Decimals Money Time Statistics Shape</p> <p><b>Set 2</b> Fractions Money Time Shape and statistics</p> <p><b>Cross Curricular Links:</b> <i>IT – binary and numbers PE- speed</i></p> <p><b>RRSA</b> 26</p>	<p><b>Set 1</b> Geometry Measurement Position and direction</p> <p><b>Set 2</b> Decimals Money Time Shape Position and direction</p> <p><b>Transition</b> Introducing problem solving through maths games and puzzles: number, geometry and measures, statistics</p> <p>Assessments – Assertive Mentoring Arithmetic evaluation <b>Cross Curricular Links:</b> Music – Structure of music IT – Commands and data <b>RRSA</b> 29</p>
9	<p>Fractions, Decimals &amp; Percentages Co-ordinates and linear graphs - including scatter graphs</p>	<p>Maths &amp; money Sequences Probability</p>	<p>Perimeter, area &amp; volume Ratio and Proportion Scale diagrams</p>	<p>Algebra Simple Equations Directed number The cartesian plane</p>	<p>2D representations of 3D shapes Rotation, reflection &amp; translation Angles</p>	<p>Equations and brackets</p> <p><b>TRANSITION</b> Number &amp; place value Four operations</p>

	Data – pie charts  <b><u>Cross Curricular Links:</u></b> <i>Science, DT, Food Tech, ICT</i> <i>RRSA – Articles 28 &amp; 29</i>	<b><u>Cross Curricular Links:</u></b> <i>Science, DT, Food Tech, ICT</i> <i>RRSA – Articles 28 &amp; 29</i>	<b><u>Cross Curricular Links:</u></b> <i>Science, DT, Food Tech, ICT,</i> <i>Forest schools, Outdoor Ed.</i> <i>RRSA – Articles 28 &amp; 29</i>	<b><u>Cross Curricular Links:</u></b> <i>Science, ICT</i> <i>RRSA – Articles 28 &amp; 29</i>	<b><u>Cross Curricular Links:</u></b> <i>Science, DT, ICT, Outdoor Ed</i> <i>RRSA – Articles 28 &amp; 29</i>	Factors & Multiples  <b><u>Cross Curricular Links:</u></b> <i>Science, ICT</i> <i>RRSA – Articles 28 &amp; 29</i>
<b>KS3 Literacy Focus</b> Key words pulled out of each topic – comprehensions and word search built into each unit Interactive lessons based on words – reinforcing key words as well as exam technique – slower pace than Y10						
<b>10</b>	Statistical Measures Indices & roots Averages  <b><u>Cross Curricular Links:</u></b> <i>Science, ICT</i> <i>RRSA – Articles 28 &amp; 29</i>	Algebra – equations and inequalities Pythagoras’s’ Theorem & Trigonometry  <b><u>Cross Curricular Links:</u></b> <i>Science, IC, Art, DT</i> <i>RRSA – Articles 28 &amp; 29</i>	Circle theorem Area, volume & circumference Construction & loci  <b><u>Cross Curricular Links:</u></b> <i>Science, DT, Food Tech, ICT,</i> <i>Art</i> <i>RRSA – Articles 28 &amp; 29</i>	Simultaneous equations Congruence and similarity  <b><u>Cross Curricular Links:</u></b> <i>Science, DT, Art, ICT</i> <i>RRSA – Articles 28 &amp; 29</i>	Angle, Bearings & Vectors Probability Standard Form  <b><u>Cross Curricular Links:</u></b> <i>Outdoor Ed, Science, ICT</i> <i>RRSA – Articles 28 &amp; 29</i>	Ratios, fractions & percentages  <b><u>TRANSITION</u></b> Measure using all operations Calculating with Percentages  <b><u>Cross Curricular Links:</u></b> <i>Science, DT, Food Tech, ICT,</i> <i>RRSA – Articles 28 &amp; 29 Art</i>
<b>11</b>	Inequalities Algebra and Graphs Sketching Graphs Real life graphs Quadratic Graphs  <b><u>Cross Curricular Links:</u></b> <i>Science, ICT</i> <i>RRSA – Articles 28 &amp; 29</i>	Direct and inverse Proportion Trigonometry Solving Quadratic Equations Mock exams  <b><u>Cross Curricular Links:</u></b> <i>Science, ICT, Art, DT</i> <i>RRSA – Articles 28 &amp; 29</i>	Revision  <b><u>Cross Curricular Links:</u></b> <i>RRSA – Articles 28 &amp; 29</i>	Revision  <b><u>Cross Curricular Links:</u></b> <i>RRSA – Articles 28 &amp; 29</i>	Revision Exams End  <b><u>Cross Curricular Links:</u></b> <i>RRSA – Articles 28 &amp; 29</i>	<b><u>TRANSITION</u></b> Review Basic Maths Algebra rearranging formula and identities  <b><u>Cross Curricular Links:</u></b> <i>RRSA – Articles 28 &amp; 29</i>
<b>KS4 Literacy Focus</b> Key words and understanding of wording in exam question Emphasis on long answer question Exam technique						