

Curriculum Overview – Mathematics – 2023/24

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

	<u>Cross Curricular Links:</u> <i>Science, DT, Food Tech, ICT</i> <i>RRSA – Articles 28 & 29</i>	<u>Cross Curricular Links:</u> <i>Science, DT, Food Tech, ICT</i> <i>RRSA – Articles 28 & 29</i>	<i>Science, DT, Food Tech, ICT,</i> <i>Forest schools, Outdoor Ed.</i> <i>RRSA – Articles 28 & 29</i>	<u>Cross Curricular Links:</u> <i>Science, ICT</i> <i>RRSA – Articles 28 & 29</i>	<u>Cross Curricular Links:</u> <i>Science, DT, ICT, Outdoor Ed</i> <i>RRSA – Articles 28 & 29</i>	<u>Cross Curricular Links:</u> <i>Science, ICT</i> <i>RRSA – Articles 28 & 29</i>
KS3 Literacy Focus 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						
10	Statistical Measures Indices & roots Averages <u>Cross Curricular Links:</u> <i>Science, ICT</i> <i>RRSA – Articles 28 & 29</i>	Algebra – equations and inequalities Pythagoras’s’ Theorem & Trigonometry <u>Cross Curricular Links:</u> <i>Science, IC, Art, DT</i> <i>RRSA – Articles 28 & 29</i>	Circle theorem Area, volume & circumference Construction & loci <u>Cross Curricular Links:</u> <i>Science, DT, Food Tech, ICT, Art</i> <i>RRSA – Articles 28 & 29</i>	Simultaneous equations Congruence and similarity <u>Cross Curricular Links:</u> <i>Science, DT, Art, ICT</i> <i>RRSA – Articles 28 & 29</i>	Angle, Bearings & Vectors Probability Standard Form <u>Cross Curricular Links:</u> <i>Outdoor Ed, Science, ICT</i> <i>RRSA – Articles 28 & 29</i>	Ratios, fractions & percentages <u>TRANSITION</u> Measure using all operations Calculating with Percentages <u>Cross Curricular Links:</u> <i>Science, DT, Food Tech, ICT,</i> <i>RRSA – Articles 28 & 29 Art</i>
11	Inequalities Algebra and Graphs Sketching Graphs Real life graphs Quadratic Graphs <u>Cross Curricular Links:</u> <i>Science, ICT</i> <i>RRSA – Articles 28 & 29</i>	Direct and inverse Proportion Trigonometry Solving Quadratic Equations Mock exams <u>Cross Curricular Links:</u> <i>Science, ICT, Art, DT</i> <i>RRSA – Articles 28 & 29</i>	Revision <u>Cross Curricular Links:</u> <i>RRSA – Articles 28 & 29</i>	Revision <u>Cross Curricular Links:</u> <i>RRSA – Articles 28 & 29</i>	Revision Exams End <u>Cross Curricular Links:</u> <i>RRSA – Articles 28 & 29</i>	<u>TRANSITION</u> Review Basic Maths Algebra rearranging formula and identities <u>Cross Curricular Links:</u> <i>RRSA – Articles 28 & 29</i>
KS4 Literacy Focus Key words and understanding of wording in exam question Emphasis on long answer question Exam technique						