

Sierra Leone

Summary of topic alignment: JSS2 and JSS3 Mathematics for Maths captains

JSS3 Term 1	JSS2 resources for JSS3
Revision needed for the work that follows	Topic 1: Revision Term 1, Lesson 1 – 20 Fractions, decimals, factors, multiples
Lessons 1 – 11 (JSS3 PHB) Sets	<i>Not done in JSS1 or JSS2</i>
Lessons 12 – 15 (JSS3 PHB) Real numbers	<i>Natural numbers, integers and fractions are subsets of real numbers.</i>
Lessons 16 – 20 (JSS3 PHB) Roman numbers; base 10 and base 2 numbers	<i>Not done in JSS1 or JSS2</i>
Lessons 21 (JSS3 PHB) Capacity and mass	Capacity and mass questions are included in Topic 2 to Topic 7
Lessons 22 – 23 (JSS3 PHB) Percentage	Topic 2: Percentage Term 1, Lesson 31 – 40 (JSS2 PHB) Topic 3: Profit and loss
Lessons 24 – 25 (JSS3 PHB) Ratio and rate	Topic 4: Ratio and rate Term 2, Lessons 46 – 55 (JSS2 PHB)
Lessons 26 – 28 (JSS3 PHB) Direct and indirect proportion	Topic 5 and 6: Direct and indirect proportion
Lessons 29 – 30 (JSS3 PHB) Financial mathematics	Finances: Included in Topics 2 to 6 Term 2, Lessons 56 – 58 (JSS2 PHB) Personal expenditure, income tax, sales tax
Lessons 31 – 34 (JSS3 PHB) Indices (exponents)	Topic 7: Indices (Exponents) Term 1, Lessons 21 – 27 & 28 – 30 (JSS2 PHB)
Lessons 35 – 40 (JSS3 PHB) Standard form, multiplying by powers of 10, small and large numbers	<i>Multiplying by powers of 10 is included in Topic 7: Indices (Exponents)</i>
Lessons 41 – 45 (JSS3 PHB) Right angled triangles and Pythagoras	Topic 8: Perimeter and area Term 2, Lessons 61 – 64 (JSS2 PHB) Perimeter and area of rectangles, squares, Parallelograms, trapeziums and triangles

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JSS3 Term 2	JSS2 resources for JSS3
<p>Lessons 46 – 49 (JSS3 PHB) Transformations and congruency</p> <p>Lessons 50 – 55 (JSS3 PHB) Transformations, congruency and similarity</p>	<p>Topic 9: Transformations Term 2, Lessons 91 – 98 (JSS2 PHB) Transformations: translation, reflection, rotation; Line symmetry, rotational symmetry; Enlargement Combining transformations</p> <p>Term 2, Lessons 99 – 100 (JSS2 PHB) Scale factor (included in Topic 9)</p>
<p>Lessons 56 – 59 (JSS3 PHB) Introduction to trigonometry</p> <p>Lessons 60 – 65 (JSS3 PHB) Continued Trigonometry</p>	<p><i>Not done in JSS2</i></p>
<p>Lessons 66 (JSS3 PHB) Changing the subject of the formula</p> <p>Lessons 67 – 74 (JSS3 PHB) Algebra and linear equations</p> <p>Lessons 75 – 78 (JSS3 PHB) Quadratic equations</p> <p>Lessons 79 – 81 (JSS3 PHB) Factors and factorising</p> <p>Lessons 82 – 85 (JSS3 PHB) More factorising and quadratics</p> <p>Lessons 86 – 92 (JSS3 PHB) Linear equations in two variables</p>	<p>Topic 10: Algebra Term 2, Lessons 106 – 115 (JSS2 PHB)</p> <p>Topic 11: Algebra Term 3, Lessons 116 – 120 (JSS2 PHB) Algebra (expand, factorise, substitute)</p> <p>Topic 12: Linear equations Lessons 121 – 130 (JSS2 PHB)</p>
<p>Lessons 93 – 94 (JSS3 PHB) Table of values</p> <p>Lessons 95 – 97 (JSS3 PHB) Cartesian plane</p> <p>Lessons 98 – 100 (JSS3 PHB) Graphing a line</p> <p>Lessons 101 – 105 (JSS3 PHB) Slope of a line</p>	<p>Topic 13: Cartesian Plane Term 3, Lessons 131 – 135 (JSS2 PHB)</p>

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JSS3 Term 3	JSS2 resources for JSS3
<p>Lessons 106 – 109 (JSS3 PHB) Number lines and inequalities</p>	<p><i>Refer to JSS1 for number lines</i></p>
<p>Lessons 110 – 115 (JSS3 PHB) Solving linear inequalities</p>	<p><i>Refer to Topic 12 for linear equations.</i></p>
<p>Lessons 116 – 117 (JSS3 PHB) Data collection and frequency tables</p> <p>Lessons 118 – 120 (JSS3 PHB) Bar graphs, line graphs</p> <p>Lessons 121 – 123 (JSS3 PHB) Pie charts and choosing a graph</p> <p>Lessons 124 – 126 (JSS3 PHB) Mean, median, mode and range</p> <p>Lessons 127 – 130 (JSS3 PHB) Grouped data</p>	<p>Topic 14: Data tables, pictograms and bar graphs Term 3, Lessons 136 – 138 (JSS2 PHB) Data tables, pictograms and bar graphs</p> <p>Topic 17: Pie charts Term 3, Lessons 144 – 146 (JSS2 PHB)</p> <p>Topic 15: Line graphs & comparing graphs Term 3, Lessons 139 – 140 (JSS2 PHB)</p> <p>Topic 16: Mean, median, mode and range Term 3, Lessons 141 – 143 (JSS2 PHB)</p> <p>Term 3, Lessons 149 to 150 (JSS2 PHB) Statistics</p>
<p>Lessons 131 – 140 (JSS3 PHB) Probability</p>	<p><i>Not done in JSS1 and JSS2</i></p>
<p>Lessons 141 – 143 (JSS3 PHB) Perimeter and area of triangles and quadrilaterals</p> <p>Lessons 144 – 145 (JSS3 PHB) Circumference and area of circles</p> <p>Lessons 146 – 150 (JSS3 PHB) Volume and surface area of prisms and cylinders</p>	<p>Topic 8: Perimeter & area Term 2, Lessons 61 – 64 (JSS2 PHB) Perimeter and area of rectangles, squares, parallelograms, trapeziums and triangles</p> <p>Topic 18: Circles & composite shapes Term 2, Lessons 65 – 67 (JSS2 PHB) Perimeter and area of circles, composite shapes</p> <p>Topic 19: Volume Term 2, Lessons 68 – 74 (JSS2 PHB) Volume of solids, cubes, rectangular prisms, triangular prisms, cylinders, composite solids Volume story problems</p> <p>Topic 20: Surface area Term 2, Lessons 75 – 80 (JSS2 PHB) Surface area of solids, cubes, rectangular prisms, cylinders, composite solids Surface area story problems</p>