

Subject Assessment Plan - Mathematics and Numeracy - Intermediate Tier

GCSE Numeracy & GCSE Mathematics (Intermediate)

Evidence collected already	Link to specification
September Mock exam. 1 hr 45 mins	Based on Intermediate paper Autumn 2019 Unit 1 Mathematics (Non-calculator). Grades Allocated according to grade boundaries existing for these exams. Projected A grades boundary given for marks attained well above B grade boundary. No A* awarded
December Mock exam 1 hr 45 mins	Based on Intermediate paper Autumn 2020 Unit 2 Mathematics (Calculator). Grades Allocated according to averaged grade boundaries existing for similar papers as grade boundaries were not available at time of marking.
Evidence to be Collected	
Assessment 1: Calculator allowed Number and Data Handling	Topics Included: <ul style="list-style-type: none"> • Interpreting Pie Charts • Mean, Mode, Median logic • Estimate of Mean from frequency table • Modal groups • Interpreting frequency tables • One number as % of another • Share in a ratio • Apply theoretical probability to experiments • Lowest common multiple Highest common factor • Tree diagrams
Assessment 2: Calculator NOT allowed Shape, Space and Measures	Topics Included: <ul style="list-style-type: none"> • Calculations with, and recognising large numbers • Converting Miles to Km • Converting between metric units: cm and m, cm³ and litres

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	<ul style="list-style-type: none"> • Solve a problem with volumes of cuboids • Perimeter and area • Calculations with similar shapes • Volume of cylinders in terms of π. Simplifying ratios
Assessment 3: Calculator allowed Algebra, Shape and Space	<p>Topics Included:</p> <ul style="list-style-type: none"> • Area of a trapezium • Calculating angles in a triangle problem • Area of a circle • Solving equations by trial and improvement • Rearranging equations
Assessment 4: Calculator NOT allowed Number	<p>Topics Included:</p> <ul style="list-style-type: none"> • Powers, reciprocals, decimal arithmetic, fraction arithmetic • Using measurements in real life • Surface area • Standard form • Utility bill payments
Assessment 5: Calculator NOT allowed Data Handling	<p>Topics Included:</p> <ul style="list-style-type: none"> • Listing the outcomes from a number experiment • Prime numbers • Drawing and interpreting scatter diagrams • Interpreting cumulative frequency graphs
Assessment 6: Calculator allowed Shape, Space and Measures	<p>Topics Included:</p> <ul style="list-style-type: none"> • Working with time • Time as a decimal • Average speed • Understanding Bearings • Volume of a cylinder problem • Conversion of capacities from cm^3 to litres

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	<ul style="list-style-type: none"> • Perimeter • Ratio problem • Pythagoras theorem • Area of a triangle • Volume of a prism • Trigonometry
<p>Assessment 7: Calculator allowed Number Problems</p>	<p>Topics Included:</p> <ul style="list-style-type: none"> • Money in real life • % of an amount • Rounding to decimal places, significant figures and nearest 1000 • Using a calculator with fractions, decimals, squares and roots • Calculating one number as a percentage of another • Number logic • Exchange rates currency conversions • Calculating % profit • Simplifying indices (powers) in algebra and with numbers
<p>Assessment 8: Calculator NOT allowed Algebra, Shape and Space</p>	<p>Topics Included:</p> <ul style="list-style-type: none"> • Numbers in a sequence • Expanding brackets • Solve equation with unknown on both sides • Angles in triangles, quadrilaterals, parallel lines • Using algebra expressions and equations in real life • Properties of quadrilaterals • Applying algebra graphs to real life • Drawing and recognising graphs of quadratic equations • Transformations: rotation, enlargement at a centre • Solve a quadratic equation by factorising

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| | <ul style="list-style-type: none">• Solve simultaneous equations |
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