

Curriculum Sequencing Grid: Maths Year 9

Year 9 Foundation	Term 1	Term 2	Term 3
<b>Unit</b> (Tablet in 39 week plan)	Basic Number Algebra, sequences and graphs Fractions, decimals and percentages Angles and bearings Equations	Ratio and proportion Perimeter, circumference and area Collecting and representing data	Polygons and 3D shapes Transformations Pythagoras Probability Calculating with percentages
<b>Key Retainable Knowledge</b> (Required for Y11/13) <ul style="list-style-type: none"> <li>What... How.... Why....</li> </ul>	All tested at GCSE Mastery from KS2 and KS3 and contextualised for examinations in KS4	All tested at GCSE Mastery from KS2 and KS3 and contextualised for examinations in KS4	All tested at GCSE Mastery from KS2 and KS3 and contextualised for examinations in KS4
<b>Key Technical Vocabulary</b> (To be modelled and deliberately practiced in context.)	Factors, multiples, primes, LCM, HCF Linear, nth term, gradient Equivalence Acute, alternate, corresponding, co-interior, obtuse, reflex, vertically opposite Solve, expression, equation, identity, coefficient, term, rearrange, form, variable, constant	Ratio, proportion, fractions, decimals and percentages Measure, pi, radius, diameter, chords, tangent, segment, sector, degrees Charts, primary, secondary, discrete, continuous, qualitative, quantitative, key, variable, averages, spread	Angles, sides, vectors, vertices, faces, edges, plans and elevations, interior, exterior Reflection, rotation, enlargement, translation, column-vector, mirror line, centre of enlargement, scale factor Hypotenuse, adjacent, opposite, right angle, square, square root, elevation and depression Likelihood, probability line, expectation, mutually exclusive, proportion, probability trees, AND, OR, dependant, independent Multiplier, increase, decrease, simple, compound, reverse, depreciation and appreciation
<b>Opportunities for Reading</b>	Contextualised examination questions Hegarty maths website questions CBBC Bitesize	Contextualised examination questions Hegarty maths website questions CBBC Bitesize	Contextualised examination questions Hegarty maths website questions CBBC Bitesize
<b>Developing Cultural Capital</b> (exposure to very best-essential knowledge and skills of educated citizens – appreciation of human creativity and achievement.)	Contextualised questions, regular problem solving activities and active learning tasks	Contextualised questions, regular problem solving activities and active learning tasks	Contextualised questions, regular problem solving activities and active learning tasks
<b>Cross Curricular Links</b> (Authentic Connections)	STEM activities across the school with science, humanities and design technology	STEM activities across the school with science, humanities and design technology	STEM activities across the school with science, humanities and design technology
<b>Key Assessment</b>	Topic tests to assess key knowledge Learning cycle half-termly testing	Topic tests to assess key knowledge Learning cycle half-termly testing	Topic tests to assess key knowledge Learning cycle half-termly testing

Curriculum Sequencing Grid: Maths Year 9

Year 9 Higher	Term 1	Term 2	Term 3
<b>Unit</b> (Tablet in 39 week plan)	Basic Number Algebra, sequences and graphs Fractions, decimals and percentages Angles and bearings Equations (include Quadratics and rearranging formula)	Ratio and proportion Perimeter, circumference and area Collecting and representing data	Polygons and 3D shapes Transformations Pythagoras Trigonometry Probability Indices, standard form and surds
<b>Key Retainable Knowledge</b> (Required for Y11/13) <ul style="list-style-type: none"> <li>What... How.... Why....</li> </ul>	All tested at GCSE Mastery from KS2 and KS3 and contextualised for examinations in KS4	All tested at GCSE Mastery from KS2 and KS3 and contextualised for examinations in KS4	All tested at GCSE Mastery from KS2 and KS3 and contextualised for examinations in KS4
<b>Key Technical Vocabulary</b> (To be modelled and deliberately practiced in context.)	Factors, multiples, primes, LCM, HCF Linear, nth term, gradient Equivalence Acute, alternate, corresponding, co-interior, obtuse, reflex, vertically opposite Solve, expression, equation, identity, coefficient, term, rearrange, form, variable, constant. Roots, factorise, quadratic, linear and constant, rearrange, complete the square	Ratio, proportion, fractions, decimals and percentages Measure, pi, radius, diameter, chords, tangent, segment, sector, degrees Charts, primary, secondary, discrete, continuous, qualitative, quantitative, key, variable, averages, spread	Angles, sides, vectors, vertices, faces, edges, plans and elevations, interior, exterior Reflection, rotation, enlargement, translation, column-vector, mirror line, centre of enlargement, scale factor Hypotenuse, adjacent, opposite, right angle, square, square root, elevation and depression Likelihood, probability line, expectation, mutually exclusive, proportion, probability trees, AND, OR, dependant, independent Sine, cosine, tangent, inverse, multi-step Index, base, fractional, negative, standard form, ordinary, surds, irrational, rational, denominator, rationalise, simplify
<b>Opportunities for Reading</b>	Contextualised examination questions Hegarty maths website questions CBBC Bitesize	Contextualised examination questions Hegarty maths website questions CBBC Bitesize	Contextualised examination questions Hegarty maths website questions CBBC Bitesize
<b>Developing Cultural Capital</b> (exposure to very best-essential knowledge and skills of educated citizens – appreciation of human creativity and achievement.)	Contextualised questions, regular problem solving activities and active learning tasks	Contextualised questions, regular problem solving activities and active learning tasks	Contextualised questions, regular problem solving activities and active learning tasks
<b>Cross Curricular Links</b> (Authentic Connections)	STEM activities across the school with science, humanities and design technology	STEM activities across the school with science, humanities and design technology	STEM activities across the school with science, humanities and design technology
<b>Key Assessment</b>	Topic tests to assess key knowledge Learning cycle half-termly testing	Topic tests to assess key knowledge Learning cycle half-termly testing	Topic tests to assess key knowledge Learning cycle half-termly testing