

Year 10 Curriculum Overview Plan 2021-22: Mathematics (Higher)

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| <p>Key Theme: Number, Geometry</p> <p>Key Concepts, Knowledge & Skills to be Embedded: 9.3h – Metric & Imperial Units 9.4h – Pythagoras’ Theorem 9.5h – Proportion 9.6h – Congruence 9.7h – Inequalities 9.8h – Similarity</p> <p>Links to Prior Learning: <i>Year 7 Scheme – 7.0, 7.1, 7.3, 7.6, 7.7, 7.8, 7.10, 7.12, 7.13, 7.15.</i> <i>Year 8 Scheme – 8.1, 8.4, 8.6, 8.7, 8.8, 8.9, 8.11, 8.13.</i> <i>Year 9 Scheme – 9.2h.</i></p> | <p>Key Theme: Number, Probability, Algebra</p> <p>Key Concepts, Knowledge & Skills to be Embedded: 9.9h – Rounding & Bounds 9.10h – Compound Units 9.11h – Probability Diagrams 9.12h – Real-life Graphs</p> <p>Links to Prior Learning: <i>Year 7 Scheme – 7.5, 7.15.</i> <i>Year 8 Scheme – 8.8, 8.10, 8.12.</i> <i>Year 9 Scheme – 9.2h, 9.5h, 9.7h, 9.10h.</i></p> | <p>Key Theme: Algebra, Geometry</p> <p>Key Concepts, Knowledge & Skills to be Embedded: 10.1h – Functions 10.2h – Circle Theorems & Angle Proofs 10.3h – Scatter Graphs 10.4f – Perpendicular Lines & Circles 10.5h – Trigonometry</p> <p>Links to Prior Learning: <i>Year 7 Scheme – 7.3, 7.5, 7.10, 7.15.</i> <i>Year 8 Scheme – 8.2, 8.3, 8.4, 8.6.</i> <i>Year 9 Scheme – 9.2h, 9.4h.</i></p> | <p>Key Theme: Number, Algebra, Geometry</p> <p>Key Concepts, Knowledge & Skills to be Embedded: 10.6h – Recurring Decimals 10.7h – Other Graphs 10.8h – Non-Right-Angled Triangles</p> <p>Links to Prior Learning: <i>Year 7 Scheme – 7.1, 7.8, 7.15.</i> <i>Year 9 Scheme – 9.2h.</i> <i>Year 10 Scheme – 10.4h, 10.5h.</i></p> | <p>Key Theme: Algebra, Geometry, Number</p> <p>Key Concepts, Knowledge & Skills to be Embedded: 10.9h – Simultaneous Equations 10.10h – Constructions 10.11h - Surds</p> <p>Links to Prior Learning: <i>Year 7 Scheme – 7.3, 7.7, 7.8, 7.15.</i> <i>Year 8 Scheme – 8.6, 8.13.</i> <i>Year 9 Scheme – 9.2h, 9.4h, 9.9h.</i></p> | <p>Key Theme: Number, Algebra, Geometry, Statistics</p> <p>Key Concepts, Knowledge & Skills to be Embedded: 10.12h – Identities & Proof 10.13h – Cumulative Frequency Graphs 10.14h – Other Sequences 10.15h – Compound Growth</p> <p>Links to Prior Learning: <i>Year 7 Scheme – 7.5, 7.7, 7.8, 7.14, 7.16.</i> <i>Year 8 Scheme – 8.1, 8.3, 8.5, 8.6.</i> <i>Year 9 Scheme – 9.2h.</i></p> |

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| <p>Key Assessment Pieces: Quiz 1</p> <p>Tier 3 Vocabulary Vault: Prefixes – centi-, milli-, kilo-, perpendicular, linear, corresponding, region, hypotenuse, integer, scale factor, root</p> <p>Reading Exposure: Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p>Strategies to enable new concepts, knowledge & skills</p> | <p>Key Assessment Pieces: Quiz 1</p> <p>Tier 3 Vocabulary Vault: Recurring, compound, given, order, intercept, fixed charge, cost per, formula, conversion, displacement, velocity, acceleration, constant, trapezium</p> <p>Reading Exposure: Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p>Strategies to enable new concepts, knowledge & skills</p> | <p>Key Assessment Pieces: Quiz 2</p> <p>Tier 3 Vocabulary Vault: Map, intermediate, chord, segment, cyclic quadrilateral, subtended, alternate, bisect, variables, relationship, reciprocal, tangent, sine, cosine, adjacent, opposite, hypotenuse, frustum</p> <p>Reading Exposure: Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p>Strategies to enable new concepts, knowledge & skills</p> | <p>Key Assessment Pieces: -</p> <p>Tier 3 Vocabulary Vault: Terminating, infinite, rational, intercept, asymptote, trigonometric, feature, turning point, vector, chord, segment</p> <p>Reading Exposure: Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p>Strategies to enable new concepts, knowledge & skills</p> | <p>Key Assessment Pieces: Quiz 3</p> <p>Tier 3 Vocabulary Vault: Sine, cosine, tangent, inverse, adjacent, opposite, hypotenuse</p> <p>Reading Exposure: Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p>Strategies to enable new concepts, knowledge & skills</p> | <p>Key Assessment Pieces: GCSE Higher Mock Papers (4-6)</p> <p>Tier 3 Vocabulary Vault: Cubic, quadratic, prove, consecutive, spread, consistent, ogive, skew, common difference, second difference, coefficient, repeated, index.</p> <p>Reading Exposure: Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p>Strategies to enable new concepts, knowledge & skills</p> |
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| <p>to embed in long-term memory: Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> | <p>to embed in long-term memory: Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> | <p>to embed in long-term memory: Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> | <p>to embed in long-term memory: Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> | <p>to embed in long-term memory: Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> | <p>to embed in long-term memory: Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> <p>*Time calendared to recap key concepts where more depth needed*</p> |
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