Year 9 Curriculum Overview Plan 2021-2022: Mathematics (Essential)

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Theme: Geometry, Probability, Number	**Key Theme:** Algebra	**Key Theme:** Ratio & Proportion, Geometry	**Key Theme:** Number, Geometry, Ratio & Proportion	**Key Theme:** Probability	**Key Theme:** Algebra
Key Concepts, Knowledge & Skills to be Embedded: 8.11 – Transformations 8.12 – Relative Frequency 8.13 – Maps and Scales 9.1f – Indices and Standard Form	**Key Concepts, Knowledge & Skills to be Embedded:** 9.2f – Quadratics	**Key Concepts, Knowledge & Skills to be Embedded:** 9.3f – Metric & Imperial Units 9.4f – Pythagoras' Theorem 9.5f – Proportion 9.6f – Congruence	**Key Concepts, Knowledge & Skills to be Embedded:** 9.7f – Inequalities 9.8f – Similarity 9.9f – Rounding & Bounds 9.10f – Compound Units	**Key Concepts, Knowledge & Skills to be Embedded:** 9.11f – Probability Diagrams	**Key Concepts, Knowledge & Skills to be Embedded:** 9.12f – Real-life Graphs
Links to Prior Learning: Year 7 Scheme - 7.0, 7.1, 7.3, 7.5, 7.6, 7.7, 7.8, 7.13, 7.15. Year 8 Scheme - 8.1, 8.2, 8.8, 8.9.	**Links to Prior Learning:** Year 7 Scheme - 7.5, 7.8, 7.15. Year 8 Scheme - 8.6.	**Links to Prior Learning:** Year 7 Scheme - 7.0, 7.3, 7.6, 7.7, 7.8, 7.10, 7.15. Year 8 Scheme - 8.1, 8.4, 8.6, 8.8, 8.11, 8.13. Year 9 Scheme - 9.2f.	**Links to Prior Learning:** Year 7 Scheme - 7.0, 7.1, 7.2, 7.3, 7.8, 7.10, 7.12, 7.13. Year 8 Scheme - 8.4, 8.6, 8.7, 8.8, 8.9, 8.11, 8.13. Year 9 Scheme - 9.3f, 9.6f.	**Links to Prior Learning:** Year 8 Scheme - 8.10, 8.12.	**Links to Prior Learning:** Year 7 Scheme – 7.5, 7.15. Year 8 Scheme - 8.8. Year 9 Scheme - 9.2f, 9.5f, 9.10f.

Key Assessment Pieces:	Key Assessment Pieces:	Key Assessment Pieces:	Key Assessment Pieces:	Key Assessment Pieces:	Key Assessment Pieces:
-	Quiz 1	Quiz 2	-	Quiz 3	Quiz 4
Tier 3 Vocabulary Vault: Origin, transformation, trial, experimental probability, reciprocal.	**Tier 3 Vocabulary Vault:** Constant, roots, parabola, curve	**Tier 3 Vocabulary Vault:** Prefixes – centi-, milli-, kilo-, perpendicular, linear, corresponding, hypotenuse	**Tier 3 Vocabulary Vault:** Integer, scale factor, root, compound, recurring	**Tier 3 Vocabulary Vault:** Sets (set notation)	**Tier 3 Vocabulary Vault:** Intercept, fixed charge, formula, conversion, displacement, velocity, acceleration, constant
Reading Exposure: Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.	**Reading Exposure:** Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.	**Reading Exposure:** Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.	**Reading Exposure:** Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.	**Reading Exposure:** Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.	**Reading Exposure:** Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.
Strategies to enable new concepts, knowledge & skills to embed in long-term memory: Diagnostic questions used in DIN tasks for retrieval practice	**Strategies to enable new concepts, knowledge & skills to embed in long-term memory:** Diagnostic questions used in DIN tasks for retrieval practice	**Strategies to enable new concepts, knowledge & skills to embed in long-term memory:** Diagnostic questions used in DIN tasks for retrieval practice	**Strategies to enable new concepts, knowledge & skills to embed in long-term memory:** Diagnostic questions used in DIN tasks for retrieval practice	**Strategies to enable new concepts, knowledge & skills to embed in long-term memory:** Diagnostic questions used in DIN tasks for retrieval practice	**Strategies to enable new concepts, knowledge & skills to embed in long-term memory:** Diagnostic questions used in DIN tasks for retrieval practice

purposes, mini-quizzes using ABCD answer cards.	purposes, mini-quizzes using ABCD answer cards.	purposes, mini-quizzes using ABCD answer cards.	purposes, mini-quizzes using ABCD answer cards.	purposes, mini-quizzes using ABCD answer cards.	purposes, mini-quizzes using ABCD answer cards. ***Time calendared to recap key concepts where more depth needed***