

### Year 8 Curriculum Overview Plan: Mathematics

| Autumn 1   | Autumn 2   | Spring 1   | Spring 2   | Summer 1   | Summer 2  |
|--|--|--|--|--|---|
| <p><b>Key Theme:</b><br/>Number, Geometry, Algebra</p> <p><b>Key Concepts, Knowledge &amp; Skills to be Embedded:</b><br/>8.1 – Percentages<br/>8.2 – Angle<br/>Properties of Lines<br/>8.3 – Arithmetic Sequences</p> <p><b>Links to Prior Learning:</b><br/>Year 7 Scheme – Units 7.1, 7.3, 7.6, 7.8.</p> <p><b>Key Assessment Pieces:</b><br/>Y8 Quiz 1</p> | <p><b>Key Theme:</b><br/>Geometry, Data, Algebra</p> <p><b>Key Concepts, Knowledge &amp; Skills to be Embedded:</b><br/>8.4 - Properties of 2D Shapes<br/>8.5 – Representation of Data<br/>8.6 – Algebra Next Steps</p> <p><b>Links to Prior Learning:</b><br/>Year 7 Scheme – Units 7.3, 7.5, 7.7, 7.8, 7.9, 7.13, 7.15.<br/>Year 8 Scheme – Units 8.2, 8.3.</p> <p><b>Key Assessment Pieces:</b><br/>-</p> | <p><b>Key Theme:</b><br/>Geometry, Ratio &amp; Proportion</p> <p><b>Key Concepts, Knowledge &amp; Skills to be Embedded:</b><br/>8.7 – Properties of 3D Shapes<br/>8.8 – Ratio</p> <p><b>Links to Prior Learning:</b><br/>Year 7 Scheme – Units 7.3, 7.12</p> <p><b>Key Assessment Pieces:</b><br/>Y8 Quiz 2</p> | <p><b>Key Theme:</b><br/>Geometry, Probability</p> <p><b>Key Concepts, Knowledge &amp; Skills to be Embedded:</b><br/>8.9 – Surface Area<br/>8.10 – Theoretical Probability<br/>8.11 – Transformations</p> <p><b>Links to Prior Learning:</b><br/>Year 7 Scheme – Units 7.1, 7.3, 7.5, 7.6, 7.12, 7.15.<br/>Year 8 Scheme – Units 8.1, 8.7.</p> <p><b>Key Assessment Pieces:</b><br/>-</p> | <p><b>Key Theme:</b><br/>Probability, Geometry</p> <p><b>Key Concepts, Knowledge &amp; Skills to be Embedded:</b><br/>8.12 – Relative Frequency<br/>8.13 – Maps and Scales</p> <p><b>Links to Prior Learning:</b><br/>Year 7 Scheme – Units 7.0, 7.1, 7.3, 7.6.<br/>Year 8 Scheme – Units 8.1, 8.2, 8.8, 8.9.</p> <p><b>Key Assessment Pieces:</b><br/>-</p> | <p><b>Key Theme:</b><br/>Geometry</p> <p><b>Key Concepts, Knowledge &amp; Skills to be Embedded:</b><br/>8.13 – Maps and Scales (Continued)</p> <p><b>Links to Prior Learning:</b><br/>Year 7 Scheme – Units 7.0, 7.3.<br/>Year 8 Scheme – Units 8.2, 8.8.</p> <p><b>Key Assessment Pieces:</b><br/>Y8 Quiz 3</p> |

|   |   |   |  |   |  |
|---|---|---|--|---|--|
| <p><b>Tier 3 Vocabulary Vault:</b><br/>VAT, profit, loss, depreciation, adjacent, intersect, term, common difference, linear.</p> <p><b>Reading Exposure:</b><br/>Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p><b>Strategies to enable new concepts, knowledge &amp; skills to embed in long-term memory:</b><br/>Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> | <p><b>Tier 3 Vocabulary Vault:</b><br/>Order of rotational symmetry, line of symmetry, mirror line, groups, tally, key, variable.</p> <p><b>Reading Exposure:</b><br/>Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p><b>Strategies to enable new concepts, knowledge &amp; skills to embed in long-term memory:</b><br/>Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> | <p><b>Tier 3 Vocabulary Vault:</b><br/>Face, edge, vertex, surface, perpendicular height, hemisphere, frustum, ratio, proportional.</p> <p><b>Reading Exposure:</b><br/>Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p><b>Strategies to enable new concepts, knowledge &amp; skills to embed in long-term memory:</b><br/>Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> | <p><b>Tier 3 Vocabulary Vault:</b><br/>Face, circumference, chance, likelihood, impossible, unlikely, even chance, likely, certain, clockwise, anti-clockwise, origin.</p> <p><b>Reading Exposure:</b><br/>Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p><b>Strategies to enable new concepts, knowledge &amp; skills to embed in long-term memory:</b><br/>Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> | <p><b>Tier 3 Vocabulary Vault:</b><br/>Trial, experimental probability, approximation, units, north, clockwise, distance, direction</p> <p><b>Reading Exposure:</b><br/>Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p><b>Strategies to enable new concepts, knowledge &amp; skills to embed in long-term memory:</b><br/>Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> | <p><b>Tier 3 Vocabulary Vault:</b><br/>Units, north, clockwise, distance, direction.</p> <p><b>Reading Exposure:</b><br/>Contextualised reading where appropriate to the lesson. Worded questions (including exam style questions) throughout lessons.</p> <p><b>Strategies to enable new concepts, knowledge &amp; skills to embed in long-term memory:</b><br/>Diagnostic questions used in DIN tasks for retrieval practice purposes, mini-quizzes using ABCD answer cards.</p> |
|---|---|---|--|---|--|

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  | <b>*Time calendared to recap key concepts where more depth needed*</b> |
|--|--|--|--|--|--|