**Mathematics Year 9 Delta Learning Journey 2022-2023**

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| **Week** | **Date** | **Key Constructs** | **Topic- please plan for pause/ RAP lessons** | | **Assessment** |
| **1(1/2)** | **05.09.22** | **Types of number**  **Place value and rounding** | * Reciprocals * Indices * Standard form * STEM: Calculating with standard form * Fractional indices * Surds | | **Unit 1 - Powers and roots** |
| **2** | **12.09.22** |
| **3** | **19.09.22** |
| **4** | **26.09.22** | **Sequences and functions**  **Equations**  **Algebraic Manipulation** | * Sequences * Expanding * Factorising * Solving quadratic equations | | **Unit 2 - Quadratics** |
| **5** | **03.10.22** |
| **6** | **10.10.22** |
| **7** | **17.10.22** |
| **Half term** | | | | | |
| **8** | **31.10.22** | **Equations and Inequalities**  **Sequences and formula**  **Indices and standard form** | * Inequalities * Using index laws * Solving equations * Changing the subject * Algebraic fractions | | **Unit 3 - Inequalities, equations and formulae** |
| **9** | **07.11.22** |
| **10** | **14.11.22** | **Data: analysing and representation**  **Data: collecting and organizing** | * STEM: Data collection * Presenting and comparing data * Estimating statistics * Box plots * Cumulative frequency graphs * Histograms | | **Unit 4 - Collecting and analysing data**  **(*not assessed*)** |
| **11** | **21.11.22** |
| **12** | **28.11.22** |
| **13** | **05.12.22** |  | Revision for End of Term Assessment  End of Term assessment  RAP and a Christmas Activity | | **Units 1-4 End of Term Assessment** |
| **14** | **12.12.22** |
| **CHRISTMAS** | | | | | |
| **15(Wed)** | **04.01.23** | **Proportional reasoning**  **Perimeter and area** | * Direct proportion * Solving problems using direct proportion * Non-linear proportion * Arcs and sectors of circles | | **Unit 5 - Multiplicative reasoning** |
| **16** | **09.01.23** |
| **17** | **16.01.23** |
| **18** | **23.01.23** | **Graphs** | * Graphs of quadratic functions * Solving quadratic equations * Graphs of cubic functions * STEM: Graphs of reciprocal functions | | **Unit 6 - Non-linear graphs** |
| **19** | **30.01.23** |
| **20** | **06.02.23** |
| **Half term** | | | | | |
| **21** | **20.02.23** | **Measures**  **Place value and rounding** | * Rates of change * Density and pressure * Upper and lower bounds * Calculating with bounds * STEM: Accurate measures in real life | | **Unit 7 - Accuracy and measures** |
| **22** | **27.02.23** |
| **23** | **06.03.23** |  | Revision for Unit 5-7 Assessment  Unit 5-7 assessment and RAP | | **Unit 5-7 Assessment** |
| **24** | **13.03.23** |
| **25** | **20.03.23** | **Equations and inequalities**  **Graphs** | * Simultaneous equations * Using y = mx + c * More simultaneous equations * Graphs and simultaneous equations * Solving inequalities | | **Unit 8 - Graphical solutions** |
| **26** | **27.03.23** |
| **EASTER** | | | | | |
| **27** | **17.04.23** | **Pythagoras and trigonometry**  **Graphs** | * The tangent ratio * The sine ratio * The cosine ratio * Using trigonometry to find angles * Solving problems using trigonometry * Trigonometric graphs | | **Unit 9 - Trigonometry** |
| **28** | **24.04.23** |
| **29 (BH)** | **02.05.23** |
| **30** | **08.05.23** | **Geometric Proof** | * Explain, show and justify * Real-life situations * Proof * More proof | | **Unit 10 Mathematical Reasoning** |
| **31** | **15.05.23** |
| **32** | **22.05.23** |
| **Half term** | | | | | |
| **33** | **05.06.23** |  | **EOYE Prep**  **EOYE Prep**  **EOYE prep/** **EOYEs**  **EOYE Rap/addressing misconceptions** | | **GCSE Paper** |
| **34** | **12.06.23** |
| **35** | **19.06.23** |
| **36** | **23.06.23** |
| **37** | **03.07.23** | **Data: analysing and representation**    **Data: collecting & organising** | **GCSE Unit 3**   * Statistical diagrams * Time series * Scatter graphs * Line of best fit * Averages and range | | **GCSE Unit 3 –Interpreting and representing data** |
| **38** | **10.07.23** |
| **39** | **17.07.22** |  | Activities week |  |  |

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| **Name:** | | **Tutor:** | **Mathematics Year 9 Assessment Progress Tracker 2022-23**  **Key Constructs:** |
| **Subject Target** |  | **EOYE**  **Grade:** |
|  | **Flightpath** | **BFL** |
| **Autumn 1** |  |  |
| **Autumn 2** |  |  |
| **Spring 1** |  |  |
| **Spring 2** |  |  |
| **Summer 1** |  |  |
| **Summer 2** |  |  |

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| **Date** | **Assessment**  **T = teacher assessed** | **Flight Path**  **Grade** | **Action (s) to make progress** |
|  | **Unit 1 - Powers and roots** |  |  |
|  | **Unit 2 - Quadratics** |  |  |
|  | **Unit 3 - Inequalities, equations and formulae** |  |  |
|  | **End of Term Assessment**  **Units 1-4** |  |  |
|  | **Unit 5 - Multiplicative reasoning** |  |  |
|  | **Unit 6 - Non-linear graphs** |  |  |
|  | **Unit 5-7 Assessment** |  |  |
|  | **Unit 8 – Graphical Solution** |  |  |
|  | **Unit 9 - Trigonometry** |  |  |
|  | **Unit 10 – Mathematical Reasoning** |  |  |
|  | **EOYE** |  |  |