**Mathematics Year 9 Theta 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** | **Indices and standard form** | * Indices * Calculations and estimates * More indices * STEM: Standard form | | **Unit 1 - Indices and standard form** |
| **2** | **12.09.22** |
| **3** | **19.09.22** |
| **4** | **26.09.22** | **Algebraic Manipulation**  **Sequences and formula** | * Substituting into expressions * Writing expressions and formulae * STEM: Using formulae * Rules of indices and brackets * Expanding double brackets | | **Unit 2 - Expressions and formulae** |
| **5** | **03.10.22** |
| **6** | **10.10.22** |
| **7** | **17.10.22** |
| **Half term** | | | | | |
| **8** | **31.10.22** | **Data: collecting and organising**  **Data: analysing and representation** | * Planning a survey * Collecting data * Calculating averages * Display and analyse data * Writing a report | | **Unit 3 - Dealing with data** |
| **9** | **07.11.22** |
| **10** | **14.11.22** | **Coordinates and transformations**  **Proportional reasoning**  **Rates of change** | * Enlargement * Negative and fractional scale factors * FINANCE: Percentage change * Rates of change * Problem-solving | | **Unit 4 - Multiplicative reasoning**  **(*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** | **Measures and construction** | * Using scales * Basic constructions * Constructing triangles * Loci | | **Unit 5 - Constructions** |
| **16** | **09.01.23** |
| **17** | **16.01.23** |
| **18** | **23.01.23** | **Equations and inequalities** | * Solving equations * Using equations * Trial and improvement * Using and solving inequalities * STEM: Proportion * Simultaneous equations | | **Unit 6 -**  **Equations, inequalities and proportionality** |
| **19** | **30.01.23** |
| **20** | **06.02.23** |
| **Half term** | | | | | |
| **21** | **20.02.23** | **Perimeter and area**  **Pythagoras**  **Polygons and polyhedral**  **Place value and rounding** | * Circumference of a circle * Area of a circle * Pythagoras' theorem * Prisms and cylinders * STEM: Errors and bounds | | **Unit 7 - Circles, Pythagoras and prisms** |
| **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** | **Sequences and functions**  **Graphs**  **Equations**  **Rates of change** | * nth term of arithmetic sequences * Non-linear sequences * Graphing rates of change * Using y = mx + c * More straight-line graphs * More simultaneous equations * Graphs of quadratic functions * Non-linear graphs | | **Unit 8 - Sequences and graphs** |
| **26** | **27.03.23** |
| **EASTER** | | | | | |
| **27** | **17.04.23** | **Probability** | * Calculating probabilities * Experimental probability * Probability diagrams * Independent events | | **Unit 9 – Probability** |
| **28** | **24.04.23** |
| **29 (BH)** | **02.05.23** |
| **30** | **08.05.23** | **Trigonometry**  **Congruent and Similar shapes** | * Congruent and Simlar Shapes * Ratios in Triangles * The tangent ratio * The sine ratio * The cosine ratio | | **Unit 10 – Comparing Shapes** |
| **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** | |  |
| **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:** | **Year 9 Mathematics Assessment Progress Tracker 2022-23**  **Key Constructs:**   * **Number** * **Ratio and proportion** * **Algebra** * **Geometry** * **Statistics** * **Probability** |
| **Subject Target** |  | **EOYE**  **Grade:** |
|  | **Flightpath** | **BFL** |
| **Autumn 1** |  |  |
| **Autumn 2** |  |  |
| **Spring 1** |  |  |
| **Spring 2** |  |  |
| **Summer 1** |  |  |
| **Summer 2** |  |  |

**Exam components**

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| **Date** | **Assessment** | **Flight Path**  **Grade** | **Action (s) to make progress** |
|  | **Unit 1 - Indices and standard form** |  |  |
|  | **Unit 2 - Expressions and formulae** |  |  |
|  | **Unit 3 - Dealing with data** |  |  |
|  | **End of Term Assessment**  **Units 1-4** |  |  |
|  | **Unit 5 - Constructions** |  |  |
|  | **Unit 6 -**  **Equations, inequalities and proportionality** |  |  |
|  | **Unit 5-7 Assessment** |  |  |
|  | **Unit 8 – Graphical Solution** |  |  |
|  | **Unit 9 – Probability** |  |  |
|  | **Unit 10 – Comparing Shapes** |  |  |
|  | **EOYE** |  |  |