**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 AssessmentEnd of Term assessmentRAP 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** |  |  |