**Mathematics Year 9 Pi 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****Written methods****Negative numbers** | * Adding and subtracting
* Multiplying
* Dividing
* Multiplying and dividing negative numbers
* Squares, cubes and roots
* More powers
* Calculations
 | **Unit 1 - Number calculations** |
| **2** | **12.09.22** |
| **3** | **19.09.22** |
| **4** | **26.09.22** | **Algebraic manipulation****Sequences and functions****Equations** | * Algebraic expressions
* Using the nth term
* Finding the nth term.
* Solving equations
 | **Unit 2 - Sequences and equations** |
| **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
* Statistics from tables
* Comparing data
* Tables
* Pie charts and scatter graphs
* FINANCE: Misleading graphs
* Writing a report
 | **Unit 3 - Statistics** |
| **9** | **07.11.22** |
| **10** | **14.11.22** | **Fractions****Percentages****Types of number****Place value and rounding** | * Equivalent proportions
* Recurring decimals
* Adding and subtracting fractions
* Multiplying fractions
* Dividing fractions
* Comparing proportions
* FINANCE: Percentage change
 | **Unit 4 - Fractions, decimals and percentages****(*not assessed*)** |
| **11** | **21.11.22** |
| **12** | **28.11.22** |
| **13** | **05.12.22** |  | **Contingency -** 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** | **Angles****Measures and construction****Polygons and polyhedral****Pythagoras** | * Angles
* Maps and scales
* Constructions
* 3D solids
* MODELLING: Pythagoras' theorem
 | **Unit 5 - Geometry in 2D and 3D** |
| **16** | **09.01.23** |
| **17** | **16.01.23** |
| **18** | **23.01.23** | **Graphs** | * Reading graphs
* Plotting graphs
* Distance-time graphs
* Midpoints
* Intercepts and gradients
 | **Unit 6 - Algebraic and real-life graphs** |
| **19** | **30.01.23** |
| **20** | **06.02.23** |
| **Half term** |
| **21** | **20.02.23** | **Ratio****Proportional reasoning****Measures** | * STEM: Using ratios
* Using proportions
* Problem-solving with proportions
* Measures and conversions
 | **Unit 7 - Multiplicative reasoning** |
| **22** | **27.02.23** |
| **23** | **06.03.23** |  |  **Contingency –**  Revision for Unit 5-7 Assessment Unit 5-7 assessment and RAP  | **Unit 5-7 Assessment** |
| **24** | **13.03.23** |
| **25** | **20.03.23** | **Substitution and formula****Perimeter, area and volume** | * Substituting into formulae
* More complex formulae
* Formulae in geometry
* Compound shapes
* Circles
 | **Unit 8 - Algebraic and geometric formulae** |
| **26**  | **27.03.23** |
| **EASTER** |
| **27** | **17.04.23** | **Probability****Data: collecting and organising** |  * Probability experiments
* Sample space diagrams
* MODELLING: Two-way tables
* Tree diagrams
 | **Unit 9 - Probability** |
| **28** | **24.04.23** |
| **29 (BH)** | **02.05.23** |
| **30** | **08.05.23** | **Similar and Congruent Shapes****Transformations****Angles** | * Quadrilaterals
* Triangles
* Transformations
* Enlargements
* Congruent Shapes
 | **Unit 10 – Polygons and Transformations** |
| **31** | **15.05.23** |
| **32** | **22.05.23** |
| **Half term** |
| **33** | **05.06.23** |  | **EOYE Prep****EOYE Prep****EOYE prep/ EOYEs****EOYEs RAP/ addressing misconceptions** |  |
| **34** | **12.06.23** |
| **35** | **19.06.23** |
| **36** | **23.06.23** |
| **37** | **03.07.23** | **GCSE Unit 3 Data: Analysing and representation****Data: Collecting & organising** | * Frequency tables
* Two-way tables
* Representing data
* Time series
* Stem and leaf diagrams
* Pie charts
* Scatter graphs
* Line of best fit
 | **GCSE Unit 3 - Graphs, tables and charts** |
| **38** | **10.07.23** |
| **39** | **17.07.22** |  | Activities week |  |  |

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| **Name:** | **Tutor:** | **\*\*\*\*\*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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| **Exam components**  |
| **Date** | **Assessment** | **Flight-path****Grade** | **Action (s) to make progress** |
|  | **Unit 1 - Number calculations** |  |  |
|  | **Unit 2 - Sequences and equations** |  |  |
|  | **Unit 3 - Statistics** |  |  |
|  | **End of Term Assessment****Units 1-4** |  |  |
|  | **Unit 5 - Geometry in 2D and 3D** |  |  |
|  | **Unit 6 - Algebraic and real-life graphs** |  |  |
|  | **Unit 5-7 Assessment** |  |  |
|  | **Unit 9 - Probability** |  |  |
|  | **Unit 10 – Polygons and Transformations** |  |  |
|  | **EOYE** |  |  |