**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** |  |  |