**Year 8 Mathematics Pi Learning Journey 2022-2023**

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| **Week** | **Date** | **Key Constructs** | **Topic- Please plan for pause/ RAP lessons** | **Assessment** | |
| **1** | **05.09.22** | **Written methods**  **Negative numbers**  **Ratio**  **Proportional reasoning** | Adding and subtracting with larger numbers and calculation  * Negative numbers * Ratio and multiplicative reasoning | **Unit 1**  **Number properties and calculations** | |
| **2** | **12.09.22** |
| **3** | **19.09.22** |
| **4** | **26.09.22** | **Polygons and polyhedral**  **Perimeter, area and volume**  **Measures** | * 3-D solids and nets * Surface area * Volume * Measures | **Unit 2**  **Shapes and measures in 3D** | |
| **5** | **03.10.22** |
| **6** | **10.10.22** |
| **7** | **17.10.22** |
| **Half term** | | | | | |
| **8** | **31.10.22** | **Data: collecting and organizing**  **Data: analysing and representation** | * Data Collection Sheets * Drawing and interpreting bar charts * Pie charts | **Unit 3**  **Statistics** | |
| **9** | **07.11.22** |
| **10** | **14.11.22** | **Algebraic manipulation**  **Sequences and functions**  **Equations** | * Simplifying expressions * Functions * Solving equations * Using brackets | **Unit 4 Expressions and Equations**  **(*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 | **EOT test Unit 1-4** | |
| **14** | **12.12.22** |
| **CHRISTMAS** | | | | | |
| **15(Wed)** | **04.01.23** | **Types of number**  **Written methods**  **Place value and rounding** | * Adding, subtracting and multiplying decimals * Ordering and rounding decimals * Problem-solving with decimals | **Unit 5**  **Decimals and calculations** | |
| **16** | **09.01.23** |
| **17** | **16.01.23** |
| **18** | **23.01.23** | **Angles and geometric proof**  **Measures and construction** | * Measuring and drawing angles * Angles inside triangles and vertically opposite angles * Constructing triangles and drawing nets | **Unit 6**  **Angles** | |
| **19** | **30.01.23** |
| **20** | **06.02.23** |
| **Half term** | | | | | |
| **21** | **20.02.23** | **Types of number**  **Algebraic manipulation**  **Indices** | * Squares, cubes and roots * Calculating with brackets and indices * LCM, HCF and prime factor decomposition | **Unit 7 Number Properties** | |
| **22** | **27.02.23** |
| **23** | **06.03.23** |
| **24** | **13.03.23** | **Sequences and functions** | * Recognising, describing and extending sequence * Position to term rules * nth term rules | **Unit 8**  **Sequences** | |
| **25** | **20.03.23** |
| **26** | **27.03.23** |  | **EOYE Prep** |  | |
| **EASTER** | | | | | |
| **27** | **17.04.23** |  | **EOYE Prep** |  | |
| **28** | **24.04.23** |  | **EOYE** |  | |
| **29 (BH)** | **02.05.23** |  | **EOYE RAP** |  | |
| **30** | **08.05.23** | **Fractions and percentages** | * Equivalent fractions, comparing fractions, frac, dec, per equivalents * Fractions of amounts, adding and subtracting fractions. * Calculate percentages and compare proportions using percentages. * Writing one number as a frac/per of another | **Unit 9**  **Fractions and percentages** | |
| **31** | **15.05.23** |
| **32** | **22.05.23** |
| **Half term** | | | | | |
| **33** | **05.06.23** | **Probability** | * Language of probability and writing probabilities for equally likely outcomes * Probability calculations * Experimental probability | **Unit 10**  **Probability** | |
| **34** | **12.06.23** |
| **35** | **19.06.23** |
| **36** | **23.06.23** |
| **37** | **03.07.23** | **Summer Project** | Summer Project  Activities Week |  | |
| **38** | **10.07.23** |
| **39** | **17.07.23** |  | Activities week |  |  |

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| **Name:** | | **Tutor:** | **Year 8 Mathematics Pi 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** |  |  |

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| **Exam components** | | | |
| **Date** | **Assessment** | **Flight-path**  **Grade** | **Action (s) to make progress** |
|  | **Unit 1**  **Number properties and calculations** |  |  |
|  | **Unit 2**  **Shapes and measures in 3D** |  |  |
|  | **Unit 3**  **Statistics** |  |  |
|  | **End of Term Assessment**  **Units 1-4** |  |  |
|  | **Unit 5**  **Decimals and calculations** |  |  |
|  | **Unit 6**  **Angles** |  |  |
|  | **Unit 7**  **Number Properties** |  |  |
|  | **Unit 8**  **Sequences** |  |  |
|  | **EOYE** |  |  |
|  | **Unit 9**  **Fractions and percentages** |  |  |
|  | **Unit 10**  **Probability** |  |  |