**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 AssessmentEnd of Term assessment, RAP and aChristmas 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 ProjectActivities 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** |  |  |