**Year 7 Mathematics Pi Learning Journey 2022-2023**

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| **Week** | **Date** | **Key Constructs** | **Topic** | **Assessment** |
| **8** | **31.10.22** | **Sequences and functions****Algebraic manipulation** | * Find outputs of simple functions.
* Describe simple functions using words or symbols. Simplify expressions.
* Write expressions given a description in words.
 | **Unit 3****Expressions, functions and formulae** |
| **9** | **07.11.22** |
| **10** | **14.11.22** | **Graphs****Coordinates and transformations****Data: analysing and representation** | * Read information from real-life graphs
* Draw graphs to show change over time.
* Write and plot the coordinates
* Plot graphs of simple functions. Draw line graphs to show relationships between quantities.
* Read values from science graphs.
 | **Unit 4 Graphs****(*not assessed individually*)** |
| **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** | * Understand the priority of operations, rules of multiplication.
* Use the operation keys on a calculator.
* Recognise multiples of 2, 5, 10 and 25.
* Multiply 3-digit numbers by a single digit
* Round numbers to the nearest 100 and 1000.
* Divide 3-digit numbers by a single digit.
* Solve problems involving multiplication and division.
* Recognise and use multiples, factors and primes.
* Find common factors and common multiples.
* Work out the HCF and LCM of two numbers.
 | **Unit 5****Factors and multiples** |
| **16** | **09.01.23** |
| **17** | **16.01.23** |
| **18** | **23.01.23** | **Place value and rounding****Measures and construction****Sequences and functions** | * Estimate, and choose suitable units, to measure length, mass and capacity.
* Draw and measure lines to the nearest mm and cm.
* Read a variety of scales.
* Record estimates to a suitable degree of accuracy
* Understand, compare, order and use decimals for tenths and hundredths, including in measures.
* Convert between different units of measure.
* Recognise and extend number sequences by counting in decimals.
* Round decimals to nearest whole number and nearest tenth.
* Use a calculator to solve word problems involving money.
 | **Unit 6****Decimals and measures** |
| **19** | **30.01.23** |
| **20** | **06.02.23** |
| **Half term** |
| **21** | **20.02.23** | **Angles and geometric proof****Place value and rounding****Measures and construction** | * Estimate, and choose suitable units, to measure length, mass and capacity.
* Draw and measure lines to the nearest mm and cm.
* Read a variety of scales.
* Record estimates to a suitable degree of accuracy
* Understand, compare, order and use decimals for tenths and hundredths, including in measures.
* Convert between different units of measure.
* Recognise and extend number sequences by counting in decimals.
* Round decimals to nearest whole number and nearest tenth.
* Use a calculator to solve word problems involving money.
 | **Unit 7 Angles and Lines****(*not assessed individually*)** |
| **22** | **27.02.23** |
| **23** | **06.03.23** |
| **24** | **13.03.23** |
| **25** | **20.03.23** |  | **EOYE Prep** |  |
| **26**  | **27.03.23** |  | **EOYE Prep** |  |
| **EASTER** |
| **27** | **17.04.23** |  | **EOYE** |  |
| **28** | **24.04.23** |  | **EOYE** |  |
| **29 (BH)** | **02.05.23** |  | **EOYE RAP/ addressing misconceptions** |  |
| **30** | **08.05.23** | **Polygons and polyhedral****Coordinates and transformations****Perimeter, area and volume** | * Identify triangles, squares and rectangles and their properties.
* Describe the line symmetry of triangles, quadrilaterals and other shapes.
* Solve problems using line symmetry.
* Describe rotational symmetry.
* Identify polygons.
* Understand the line and rotational symmetry of rotational polygons.
* Find the perimeter of squares, rectangles and regular polygons.
 | **Unit 8****Measuring and shapes** |
| **31** | **15.05.23** |
| **32** | **22.05.23** |
| **Half term** |
| **33** | **05.06.23** | **Fractions****Written methods****Percentages** | * Comparing fractions
* Equivalent fractions
* Calculating with fractions
* Adding and subtracting fractions
* Introducing percentages
* FINANCE: Finding percentages
 | **Unit 9****Fractions, decimals and percentages** |
| **34** | **12.06.23** |
| **35** | **19.06.23** |
| **36** | **23.06.23** | **Coordinates and transformations** | * Reflection
* Translation
* Rotation
* Congruency
 | **Unit 10****Transformations** |
| **37** | **03.07.23** |
| **38** | **10.07.23** |
| **39** | **17.07.23** |  | Activities week |  |  |

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| **Name:** | **Tutor:** | **Year 7 Mathematics Pi Assessment Progress Tracker 2022-23****Key Constructs:*** **Number**
* **Ratio and Proportion**
* **Algebra**
* **Geometry**
* **Statistics**
* **Probability**
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| **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 3****Expressions,****functions and formulae** |  |  |
|  | **EOT test Unit 1-4** |  |  |
|  | **Unit 5****Factors and multiples** |  |  |
|  | **Unit 6****Decimals and measures**  |  |  |
|  | **EOYE** |  |  |
|  | **Unit 8****Measuring and shapes** |  |  |
|  | **Unit 9****Fractions, decimals and percentages** |  |  |
|  | **Unit 10****Transformations** |  |  |