**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** |
| **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** |  |  |