1. **87Year 10 Maths Foundation Learning Journey 2022-2023**

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| **Week** | **Date** | **Key Constructs** | **Topic** | **Assessment** |
| **1(1/2)** | **05.09.22** | **Written methods**  **Types of number**  **Place value and rounding**  **Indices** | * Calculations * Decimal numbers * Place value * Factors and multiples * Squares, cubes and roots * Index notation * Prime factors | **Unit 1 - Number** |
| **2** | **12.09.22** |
| **3** | **19.09.22** |
| **4** | **26.09.22** | **Algebraic manipulation**  **Substitution and formula** | * Algebraic expressions * Simplifying expressions * Substitution * Formulae * Expanding brackets * Factorising * Using expressions and formulae | **Unit 2 - Algebra** |
| **5** | **03.10.22** |
| **6** | **10.10.22** |
| **7** | **17.10.22** |
| **Half term** | | | | |
| **8** | **31.10.22** | **Fractions**  **Percentages**  **Place value and rounding**  **Types of number** | * Working with fractions * Operations with fractions * Multiplying fractions * Dividing fractions * Fractions and decimals * Fractions and percentages * Calculating percentages | **Unit 4 - Fractions and percentages** |
| **9** | **07.11.22** |
| **10** | **14.11.22** |
| **11** | **21.11.22** | **Equations and inequalities**  **Sequences and formula** | * Solving equations * Solving equations with brackets * Introducing inequalities * More formulae * Generating sequences * Using the nth term of a sequence | **Unit 5 - Equations, inequalities and sequences**  ***Assessment (Unit 1-5)***  ***Unit 3 completed in Year 9*** |
| **12** | **28.11.22** |
| **13** | **05.12.22** |
| **14** | **12.12.22** |
| **CHRISTMAS** | | | | |
| **15(Wed)** | **04.01.23** | **Angles and geometric proof** | * Properties of shapes * Angles in parallel lines * Angles in triangles * Exterior and interior angles * More exterior and interior angles * Geometrical patterns | **Unit 6 - Angles** |
| **16** | **09.01.23** |
| **17** | **16.01.23** |
| **18** | **23.01.23** | **Data: Collecting and organising** | * Mean and range * Mode, median and range * Mode, median and range * Estimating the mean * Sampling | **Unit 7 - Averages and range** |
| **19** | **30.01.23** |
| **20** | **06.02.23** |
| **Half term** | | | | |
| **21** | **20.02.23** | **Polygons and Polyhedra**  **Perimeter, area and volume** | * Rectangles, parallelograms and triangles * Trapezia and changing units * Area of compound shapes * Surface area of 3D solids * Volume of prisms * More volume and surface area | **Unit 8 - Perimeter, area and volume 1**  ***Assessment (Unit 1-8)*** |
| **22** | **27.02.23** |
| **23** | **06.03.23** |
| **24** | **13.03.23** | **Graphs** | * Coordinates * Linear graphs * Gradient * y = mx + c * Real-life graphs * Distance-time graphs | **Unit 9 - Graphs** |
| **25** | **20.03.23** |
| **26** | **27.03.23** |
| **EASTER** | | | | |
| **27** | **17.04.23** | **Coordinates and transformations** | * Translation * Reflection * Rotation * Enlargement * Describing enlargements * Combining transformations | **Unit 10 - Transformations** |
| **28** | **24.04.23** |
| **29 (BH)** | **02.05.23** |
| **30** | **08.05.23** | **Ratio**  **Proportional reasoning** | * Writing ratios * Using ratios * Ratios and measures * Comparing using ratios * Using proportion * Proportion and graphs * Proportion problems | **Unit 11 - Ratio and proportion** |
| **31** | **15.05.23** |
| **32** | **22.05.23** |
| **Half term** | | | | |
| **33** | **05.06.23** |  | **EOYE prep** |  |
| **34** | **12.06.23** |  | **EOYE prep** |  |
| **35** | **19.06.23** |  | **EOYE** |  |
| **36** | **23.06.23** |  | **EOYEs/EOYE RAP/addressing misconceptions** |  |
| **37** | **03.07.23** | **Pythagoras**  **Trigonometry** | * Pythagoras' theorem * Trigonometry: the cosine ratio * Trigonometry: the tangent ratio * Finding lengths and angles using trigonometry | **Unit 12 -**  **Right-angled triangles** |
| **38** | **10.07.23** |
| **39** | **17.07.23** |  | Work experience |  |

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| **Name:** | | **Tutor:** | **Year 10 Maths Foundation 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** |  |  |
|  | **Unit 2 - Algebra** |  |  |
|  | **Unit 4 - Fractions and percentages** |  |  |
|  | **Units 1 - 5** |  |  |
|  | **Unit 6 - Angles** |  |  |
|  | **Unit 7 - Averages and range** |  |  |
|  | **Units 1 - 8** |  |  |
|  | **Unit 9 - Graphs** |  |  |
|  | **Unit 10 - Transformations** |  |  |
|  | **Unit 11 - Ratio and proportion** |  |  |
|  | **EOYE** |  |  |
|  | **Unit 12 -**  **Right-angled triangles** |  |  |