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** |  |  |