**Year 11 Mathematics Higher Learning Journey 2022-2023**

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| **Week** | **Date** | **Key Constructs** | **Topic** | **Assessment** |
| **End of year 10** |  | **Proportional Reasoning****Ratio** | * Growth and decay
* Compound measures
* Ratio and proportion
 | **Unit 11 - Multiplicative reasoning** |
| **End of year 10** |  | **Geometric Proof****Perimeter, area and volume** | * Congruence
* Geometric proof and congruence
* Similarity
* More similarity
* Similarity in 3D solids
 | **Unit 12 - Similarity and congruence** |
| **1(1/2)** | **05.09.22** | **Graphs****Trigonometry****Place Value and rounding** | * Accuracy
* Graph of the sine function
* Graph of the cosine function
* The tangent function
* Calculating areas and the sine rule
* The cosine rule and 2D trigonometric problems
* Solving problems in 3D
* Transforming trigonometric graphs
 | **Unit 13 - More trigonometry** |
| **2** | **12.09.22** |
| **3** | **19.09.22** |
| **4** | **26.09.22** | **Data: analysing  and representation****Data: Collecting and orgnaising** | * Sampling
* Cumulative frequency
* Box plots
* Histograms
* Comparing and describing populations
 | **Unit 14 - Further statistics** |
| **5** | **03.10.22** |
| **6** | **10.10.22** | **Equations and inequalities****Graphs** | * Solving simultaneous equations graphically
* Representing inequalities graphically
* Graphs of quadratic functions
* Solving quadratic equations graphically
* Graphs of cubic functions
 | **Unit 15 - Equations and graphs*****Assessment (Unit 11 - 15)*** |
| **7** | **17.10.22** |
| **Half term** |
| **8** | **31.10.22** |  | **Mock Prep** |  |
| **9** | **07.11.22** |  | **Mock Prep** |  |
| **10** | **14.11.22** |  | **Mocks** |  |
| **11** | **21.11.22** |  | **Mocks RAP/addressing misconceptions** |  |
| **12** | **28.11.22** | **Angles****Geometric proof** | * Radii and chords
* Circle theorems
* Applying circle theorems
 | **Unit 16 - Circle theorems** |
| **13** | **05.12.22** |
| **14**  | **12.12.22** |  | **Mock results**  |  |
| **CHRISTMAS** |
| **15(Wed)**  | **04.01.23** | **Substitution and Formula****Equations****Types of number****Functions** | * Rearranging formulae
* Algebraic fractions
* Surds
* Solving algebraic fraction equations
* Functions
* Proof
 | **Unit 17 - More algebra** |
| **16** | **09.01.23** |
| **17** | **16.01.23** |
| **18** | **23.01.23** | **Geometric proof****Algebraic manipulation** | * Vectors and vector notation
* Vector arithmetic
* Parallel vectors and collinear points
* Solving geometric problems
 | **Unit 18 - Vectors and geometric proof** |
| **19** | **30.01.23** |
| **20** | **06.02.23** |
| **Half term** |
| **21** | **20.02.23** | **Proportional Reasoning** | * Direct proportion
* Inverse proportion
 | **Unit 19 - Proportion and graphs** |
| **22** | **27.02.23** |
| **23** | **06.03.23** |
| **24** | **13.03.23** |  | **GCSE Exam Prep** |  |
| **25** | **20.03.23** |
| **26**  | **27.03.23** |
| **EASTER** |
| **27** | **17.04.23** |  | **GCSE Exam Prep** |  |
| **28** | **24.04.23** |
| **29 (BH)** | **02.05.23** |
| **30** | **08.05.23** |
| **31** | **15.05.23** |  | **Exams** |  |
| **32** | **22.05.23** |  | **Exams** |  |
| **Half term** |
| **33** | **05.06.23** |  | **Exams** |  |
| **34** | **12.06.23** |  | **Exams** |  |
| **35** | **19.06.23** |  | **Exams** |  |
| **36** | **23.06.23** |  |  |  |
| **37** | **03.07.23** |  |  |  |

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| **Name:** | **Tutor:** | **Year 11 Mathematics Foundation Assessment Progress Tracker 2022-23****Key Constructs:*** **Number**
* **Ratio and Proportion**
* **Algebra**
* **Geometry**
* **Statistics**
* **Probability**
 |
| **Subject Target** |  | **Mock****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 13 - More trigonometry** |  |  |
|  | **Unit 14 - Further statistics** |  |  |
|  | **Unit 15 - Equations and graphs** |  |  |
|  | ***Assessment (Unit 11 - 15)*** |  |  |
|  | **Mock Exams** |  |  |
|  | **Unit 16 - Circle theorems** |  |  |
|  | **Unit 17 - More algebra** |  |  |
|  | **Unit 18 - Vectors and geometric proof** |  |  |
|  | **Unit 19 - Proportion and graphs** |  |  |