**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** |  |  |