**Year 8 Mathematics Theta Learning Journey 2022-2023**

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| **Week** | **Date** | **Key Constructs** | **Topic- Please plan for pause/ RAP lessons** | **Assessment** |
| **1** | **05.09.22** | **Types of number****Negative numbers****Indices** | Calculations, negative integers* Powers, roots and brackets
* Multiples and factors
 | **Unit 1****Number** |
| **2** | **12.09.22** |
| **3** | **19.09.22** |
| **4** | **26.09.22** | **Perimeter, area and volume****Polygons and polyhedral** | * Area of a triangle
* Area of a parallelogram and trapezium
* Volume, surface area of cubes and cuboids
* 3D shapes
 | **Unit 2****Area and Volume** |
| **5** | **03.10.22** |
| **6** | **10.10.22** |
| **7** | **17.10.22** |
| **Half term** |
| **8** | **31.10.22** | **Data: analysing and representation****Data: collecting and organising** | * Pie charts Using tables
* Stem and leaf diagrams
* Comparing data
* Scatter graphs Misleading graphs
 | **Unit 3****Statistics, graphs and charts** |
| **9** | **07.11.22** |
| **10** | **14.11.22** | **Equations****Algebraic manipulation** | * Algebraic powers expressions brackets
* Factorising expressions
* One and two-step equations
* The balancing method
 | **Unit 4****Expressions and Equations*****(not assessed)*** |
| **11** | **21.11.22** |
| **12** | **28.11.22** |
| **13** | **05.12.22** |  | Revision for End of Term AssessmentEnd of Term assessment, RAP and aChristmas Activity | **EOT test Unit 1-4** |
| **14**  | **12.12.22** |
| **CHRISTMAS** |
| **15(Wed)**  | **04.01.23** | **Graphs** | * Conversion and distance-time graphs
* Line graphs
* Graphs of functions Real-life graphs
 | **Unit 5****Real-life graphs** |
| **16** | **09.01.23** |
| **17** | **16.01.23** |
| **18** | **23.01.23** | **Place value and rounding****Ratio****Proportional reasoning** | * Ordering decimals and rounding
* Place-value and decimal calculations
* Ratio and proportion with decimals
 | **Unit 6****Decimals and ratio** |
| **19** | **30.01.23** |
| **20** | **06.02.23** |
| **Half term** |
| **21** | **20.02.23** | **Angles and geometric proof****Polygons and polyhedral** | * Quadrilaterals
* Alternate, exterior, interior angles proof
* Geometrical problems
 | **Unit 7****Lines and angles** |
| **22** | **27.02.23** |
| **23** | **06.03.23** |
| **24** | **13.03.23** | **Fractions****Types of number****Written methods** | * Adding and subtracting fractions
* Multiplying and dividing fractions
* Calculating with mixed numbers
* Fractions, decimals and reciprocals
 | **Unit 8****Calculating with fractions** |
| **25** | **20.03.23** |
| **26**  | **27.03.23** |  | **EOYE Prep** |  |
| **EASTER** |
| **27** | **17.04.23** |  | **EOYE Prep** |  |
| **28** | **24.04.23** |  | **EOYE** |  |
| **29 (BH)** | **02.05.23** |  | **EOYE RAP** |  |
| **30** | **08.05.23** | **Graphs** | * Direct proportion on graphs
* Gradients
* Equations of straight lines
 | **Unit 9****Straight-line graphs** |
| **31** | **15.05.23** |
| **32** | **22.05.23** |
| **Half term** |
| **33** | **05.06.23** | **Fractions****Decimals****Percentages****Proportional reasoning** | * Fractions and decimals
* Equivalent proportions
* Writing percentages
* Percentages of amounts
 | **Unit 10****Percentages, decimals and fractions** |
| **34** | **12.06.23** |
| **35** | **19.06.23** |
| **36** | **23.06.23** |
| **37** | **03.07.23** | **Summer Project** | Summer ProjectActivities Week |  |
| **38** | **10.07.23** |
| **39** | **17.07.23** |  | Activities week |  |  |

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| **Name:** | **Tutor:** | **Year 8 Mathematics Theta Assessment Progress Tracker 2022-23****Key Constructs:*** **Number**
* **Ratio and Proportion**
* **Algebra**
* **Geometry**
* **Statistics**
* **Probability**
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| **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****Area and Volume** |  |  |
|  | **Unit 3****Statistics, graphs and charts** |  |  |
|  | **End of Term Assessment****Units 1-4** |  |  |
|  | **Unit 5****Real-life graphs** |  |  |
|  | **Unit 6****Decimals and ratio** |  |  |
|  | **Unit 7****Lines and Angles** |  |  |
|  | **Unit 8****Calculating with fractions** |  |  |
|  | **EOYE** |  |  |
|  | **Unit 9****Straight-line graphs** |  |  |
|  | **Unit 10****Percentages, decimals & fractions** |  |  |