**TNHA Curriculum Planning Document** Subject: Mathematics Year: 9 Foundation

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| **Timescale** | **Autumn** | | **Spring** | | **Summer** | |
| **Prior Learning**  **(from KS2/3)** | KS3 – Symmetry  KS3 – Fractions  KS3 – Co-ordinates | KS3 – Calculations of integers  KS3 – Basic Percentages  KS3 – Understanding ratio | KS3 – Basic area formula  KS3 – Index notation  KS3 – Frequency Tables | KS3 – Probability scales  KS3 – Algebraic substitution | KS4 – Block 1  KS3 – Rounding numbers | KS3 – Term to term sequences  KS4 – Block2 |
| **Topic/ Unit title** | Block 1  **Learning:**  Coordinates  Scale and units  Properties of number  Symmetry  Fractions  Maps and Angles | Block 2  **Learning:**  Decimals  Directed Number  Shape  Percentages  Ratio and Proportion  Statistics | Block 3  **Learning:**  Spending Money  Introductions to algebra and formulae  Collecting and recording data  Perimeter and area  Powers and brackets | Block 4  **Learning:**  Graphs  Probability  3D Shapes  Earning money | Block 5  **Learning:**  Estimation  Equations  Fractions 2  Properties of Number 2  Angles and shape | Block 6  **Learning:**  Co-ordinates and Graphs  Decimals 2  Sequences  Using Statistics  Percentages 2 |
| **SMSC/Cultural Capital/Character/FBV- outline specific areas that are covered in this unit** | Golden Ratio’s.  History of Maths.  Origin of Ratio’s in art and the Human Body. | Types of Number and their Origin.  Rangoli Patterns and their Cultural Origin.  Varying Multiplication Methods used around the World. | Financial Maths | Financial Maths.  History of Maths.  Types of Number and their Origin. | Euclidean Geometry.  Mental Strategies for ‘Every Day’ Maths. | Research into Famous Mathematician’s, looking at Social and Moral Barriers to their Lives. |
| **Assessment Opportunities** | Each block is assessed by an end of topic test.  Each term is assessed using an end of termly test.  The whole year is assessed using an end of year test. | | | | | |
| **Links to other units in KS3/4.** | Strong links to Block 5 | Strong links to Block 6 |  |  | Recapping over Block 1 | Recapping over Block 2 |

**TNHA Curriculum Planning Document** Subject: Mathematics Year: 10 Foundation

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| **Timescale** | **Autumn** | | **Spring** | | **Summer** | |
| **Prior Learning**  **(from KS2/3)** | KS3 – Understanding algebraic notation  KS4 – Area formulas Block 3 | KS3 – Types of symmetry  KS3 – Using mathematical equipment.  KS3 – Squares and roots | KS4 – Enlargements (Block 8)  KS3 – Multipliers | KS3 – Solving basic equations.  KS4 – Probability (Block 4) |  |  |
| **Topic/ Unit title** | Block 7  **Learning:**  Using Formulae  Expressions, equations and inequalities  Area and Volumes | Block 8  **Learning:**  Ratio and Proportion  Transformations  Loci  Pythagoras | Block 9  **Learning:**  Similar and congruent shapes  Similar Triangles  Trig Ratios | Block 10  **Learning:**  Graphs, Quadratics and Cubics  Simultaneous Equations  Direct and Inverse Proportion  Probability | Revision Plan  Covers Block 1,2,5 &6 from Year 9 | |
| **SMSC/Cultural Capital/Character/FBV- outline specific areas that are covered in this unit** | TBD | TBD | TBD | TBD |  | |
| **Assessment Opportunities** | Each block is assessed by an end of topic test.  Each term is assessed using an end of termly test.  The whole year is assessed using an end of year test. | | | | | |
| **Links to other units in KS3/4.** | Essential prior learning in Block 3 |  |  | Probability work in Block 4 needs recapping first. |  |  |

**TNHA Curriculum Planning Document** Subject: Mathematics Year: 11 Foundation

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| **Timescale** | **Autumn** | | **Spring** | | **Summer** | |
| **Prior Learning**  **(from KS2/3)** |  |  |  |  |  |  |
| **Topic/ Unit title** | Revision of Blocks 3,4,7,8 | | Exam Preparation  Full in depth programme, where what is covered is specifically chosen to the weaknesses of the group. Significant independent learning will be done by students who understand the objectives being covered. | | | |
| **SMSC/Cultural Capital/Character/FBV- outline specific areas that are covered in this unit** | The importance of addressing individual targets in the coming months. | | Dealing with stress  Motivation of improving scores  How to improve exam preparation. | |  | |
| **Assessment Opportunities** |  | | Exam paper every two weeks  QLA of this to decide on the objectives to be covered. | |  | |
| **Links to other units in KS3/4.** |  |  |  |  |  |  |