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

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| **Timescale** | **Autumn** | **Spring** | **Summer** |
| **Prior Learning****(from KS2/3)** | KS3 – SymmetryKS3 – FractionsKS3 – Co-ordinates | KS3 – Calculations of integers KS3 – Basic PercentagesKS3 – Understanding ratio | KS3 – Basic area formulaKS3 – Index notationKS3 – Frequency Tables | KS3 – Probability scalesKS3 – Algebraic substitution | KS4 – Block 1KS3 – Rounding numbers | KS3 – Term to term sequences KS4 – Block2 |
| **Topic/ Unit title** | Block 1**Learning:** CoordinatesScale and unitsProperties of numberSymmetryFractionsMaps and Angles | Block 2**Learning:** DecimalsDirected NumberShapePercentagesRatio and ProportionStatistics | Block 3**Learning:** Spending MoneyIntroductions to algebra and formulaeCollecting and recording dataPerimeter and areaPowers and brackets | Block 4**Learning:** GraphsProbability3D Shapes Earning money | Block 5**Learning:** EstimationEquationsFractions 2Properties of Number 2Angles and shape | Block 6**Learning:** Co-ordinates and GraphsDecimals 2SequencesUsing StatisticsPercentages 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 symmetryKS3 – 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 FormulaeExpressions, equations and inequalitiesArea and Volumes | Block 8**Learning:** Ratio and ProportionTransformationsLociPythagoras | Block 9 **Learning:** Similar and congruent shapesSimilar TrianglesTrig Ratios | Block 10**Learning:** Graphs, Quadratics and CubicsSimultaneous EquationsDirect and Inverse ProportionProbability | Revision PlanCovers 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 PreparationFull 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 stressMotivation of improving scoresHow to improve exam preparation. |  |
| **Assessment Opportunities** |  | Exam paper every two weeksQLA of this to decide on the objectives to be covered. |  |
| **Links to other units in KS3/4.** |  |  |  |  |  |  |