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

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| **Timescale** | **Autumn** | **Spring** | **Summer** |
| **Prior Learning****(from KS2/3)** | KS3 – OperationsKS3 - Rules of anglesKS3 – Basic Equation solving | KS3 – Averages from listsKS3 – Understanding of algebraic notationKS3 – Equivalence of ratio, percentages | KS3 – Averages from frequency tables.KS3 - Rules of angles | KS3 – Basic areas KS3 – indices understanding | KS3 – Plotting graphsKS3 – Algebraic substitution | KS3 – Rounding numbersKS3 – Equality and Equivalence |
| **Topic/ Unit title** | Block 1**Learning:** Basic ArithmeticShape and AnglesEquations and Inequalities | Block 2**Learning:** Statistics ReviewFormulae and ExpressionsRatio, Proportion and Variation | Block 3**Learning:** TrigonometryGrouped Data | Block 4**Learning:** More about NumbersArea and Volume | Block 5**Learning:** Quadratic EquationsGraphs | Block 6**Learning:** AccuracyManipulating ExpressionsEquations  |
| **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.Mental Strategies for ‘Every Day’ Maths. | Types of Number and their Origin. Rangoli Patterns and their Cultural Origin. Varying Multiplication Methods used around the World. | Financial MathsHistory of Greek Mathematics | Financial Maths.History of Maths. Types of Number and their Origin.  | Manipulation of graphic data. | 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 | Links nicely to the angles in Block 1 | Links to the indices work in both KS3 and Block 1 | Recapping over Block 1 | Recapping over Block 2 |

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

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| **Timescale** | **Autumn** | **Spring** | **Summer** |
| **Prior Learning****(from KS2/3)** | KS3 – SymmetryKS3 – Equations of linesKS3 – Basic probability | KS3 – Patterns and sequencesKS3/4 – Basic Trigonometry | KS3 – Areas of shapesKS4 - Transfomations |  |  |  |
| **Topic/ Unit title** | Block 7**Learning:** Motion GeometryCirclesProbability | Block 8**Learning:** Similarity and CongruenceTrigonometrySequences | Block 9 **Learning:** Transforming GraphsVectorsWorking with Graphs | Revision of Blocks 1&2 | Revision PlanCovers Block 3,4 & 5 |
| **SMSC/Cultural Capital/Character/FBV- outline specific areas that are covered in this unit** | How probabilities can catch you out. | Patterns in nature. | Linking theory to practical applications | Developing an organised approach to revision | 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 course is assessed using an end of year test. |
| **Links to other units in KS3/4.** |  | Strong reliance on Block 3 | Links to Block 7 with the motion geometry. |  |  |  |

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

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| **Timescale** | **Autumn** | **Spring** | **Summer** |
| **Prior Learning****(from KS2/3)** |  |  |  |  |  |  |
| **Topic/ Unit title** | Revision of Blocks 6-9 | 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.** |  |  |  |  |  |  |