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

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| **Timescale** | **Autumn** | | **Spring** | | **Summer** | |
| **Prior Learning**  **(from KS2/3)** | KS3 – Operations  KS3 - Rules of angles  KS3 – Basic Equation solving | KS3 – Averages from lists  KS3 – Understanding of algebraic notation  KS3 – Equivalence of ratio, percentages | KS3 – Averages from frequency tables.  KS3 - Rules of angles | KS3 – Basic areas  KS3 – indices understanding | KS3 – Plotting graphs  KS3 – Algebraic substitution | KS3 – Rounding numbers  KS3 – Equality and Equivalence |
| **Topic/ Unit title** | Block 1  **Learning:**  Basic Arithmetic  Shape and Angles  Equations and Inequalities | Block 2  **Learning:**  Statistics Review  Formulae and Expressions  Ratio, Proportion and Variation | Block 3  **Learning:**  Trigonometry  Grouped Data | Block 4  **Learning:**  More about Numbers  Area and Volume | Block 5  **Learning:**  Quadratic Equations  Graphs | Block 6  **Learning:**  Accuracy  Manipulating Expressions  Equations |
| **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 Maths  History 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 – Symmetry  KS3 – Equations of lines  KS3 – Basic probability | KS3 – Patterns and sequences  KS3/4 – Basic Trigonometry | KS3 – Areas of shapes  KS4 - Transfomations | |  |  |  |
| **Topic/ Unit title** | Block 7  **Learning:**  Motion Geometry  Circles  Probability | Block 8  **Learning:**  Similarity and Congruence  Trigonometry  Sequences | Block 9  **Learning:**  Transforming Graphs  Vectors  Working with Graphs | | Revision of Blocks 1&2 | Revision Plan  Covers 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 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.** |  |  |  |  |  |  |