



# TNHA Curriculum Planning Document

Subject: Mathematics

Year: 9 Higher

Timescale	Autumn		Spring		Summer	
<b>Prior Learning (from KS2/3)</b>	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
<b>Topic/ Unit title</b>	<b>Block 1</b>  <b>Learning:</b> Basic Arithmetic Shape and Angles Equations and Inequalities	<b>Block 2</b>  <b>Learning:</b> Statistics Review Formulae and Expressions Ratio, Proportion and Variation	<b>Block 3</b>  <b>Learning:</b> Trigonometry Grouped Data	<b>Block 4</b>  <b>Learning:</b> More about Numbers Area and Volume	<b>Block 5</b>  <b>Learning:</b> Quadratic Equations Graphs	<b>Block 6</b>  <b>Learning:</b> Accuracy Manipulating Expressions Equations
<b>SMSC/Cultural Capital/Character/FBV-outline specific areas that are covered in this unit</b>	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.
<b>Assessment Opportunities</b>	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.					
<b>Links to other units in KS3/4.</b>	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



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<b>Prior Learning (from KS2/3)</b>	KS3 – Symmetry KS3 – Equations of lines KS3 – Basic probability	KS3 – Patterns and sequences KS3/4 – Basic Trigonometry	KS3 – Areas of shapes KS4 - Transformations			
<b>Topic/ Unit title</b>	<b>Block 7</b>  <b>Learning:</b> Motion Geometry Circles Probability	<b>Block 8</b>  <b>Learning:</b> Similarity and Congruence Trigonometry Sequences	<b>Block 9</b>  <b>Learning:</b> Transforming Graphs Vectors Working with Graphs	<b>Revision of Blocks 1&amp;2</b>	<b>Revision Plan Covers Block 3,4 &amp; 5</b>	
<b>SMSC/Cultural Capital/Character/FBV- outline specific areas that are covered in this unit</b>	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.	
<b>Assessment Opportunities</b>	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.		
<b>Links to other units in KS3/4.</b>		Strong reliance on Block 3	Links to Block 7 with the motion geometry.			



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<b>Prior Learning (from KS2/3)</b>						
<b>Topic/ Unit title</b>	Revision of Blocks 6-9		<b>Exam Preparation</b> 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.			
<b>SMSC/Cultural Capital/Character/FBV- outline specific areas that are covered in this unit</b>	The importance of addressing individual targets in the coming months.		Dealing with stress Motivation of improving scores How to improve exam preparation.			
<b>Assessment Opportunities</b>			Exam paper every two weeks QLA of this to decide on the objectives to be covered.			
<b>Links to other units in KS3/4.</b>						