Curriculum Content Map

Subject: Maths - Higher

Year group: 10

	Term 1				Term 2			Term 3			
Month	**September**	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**
Virtue	**Friendliness & Civility**	**Justice & Truthfulness**	**Courage**	**Generosity**	**Gratitude**	**Good Speech**	**Good Temper & Humour**	**Self-Mastery**		**Compassion**	**Good Sense**
Skill	**Listening**	**Leadership**	**Problem-Solving**	**Creativity**	**Staying Positive**	**Speaking**	**Staying Positive**	**Aiming High**		**Speaking**	**Teamwork**
Curriculum Content	Number NUMBER	Algebra ALGEBRA	Interpreting and Representing Data DATA	Fractions, Ratio and Percentages NUMBER	Angles and Trigonometry SHAPE	Graphs ALGEBRA		Area and Volume SHAPE	Transformations & Constructions SHAPE	Equations and Inequalities ALGEBRA	Probability DATA
National Curriculum area											
Link to Virtue	Students will need to ensure they demonstrate friendliness and civility as they support each other in consolidating and extending their number knowledge.	Students will look at the truthfulness of expressions. Students will also look at how sequences are used to hide the truth.	Students will need to demonstrate courage to extend their knowledge of data and build upon this to tackle new and more difficult representation of data.	Students will need to be generous with their time in terms of retrieval as this will need to be secure in order to link fractions and ratios.	Students will need to demonstrate their gratitude for the time spent securing their knowledge in trigonometry.	Students will need to demonstrate good speech as they explain their working and also explain conclusions from their graphs.	Students will need to demonstrate good temper and humour as they extend their graphs knowledge to develop to several different types of graph and how to interpret these.	Students have learned basic area and volume skills in KS3 so this topic is about mastering these skills and developing them further.	Students have learned how to reflect, rotate, translate and enlarge shapes, but will now be mastering these skills and learning to describe them.	Students will need to show compassion for each other as they help and support each other in tackling more difficult algebraic skills.	Students will need to use good sense to ensure that their probability answers make sense – and that they remember to check the answers!
Link to Skill	Students will need to listen to each other and be able to explain another students' opinion. Students will also need to be listen to the teacher to pull out consistency underlying themes or use of previous skills.	Students will lead their learning to ensure they are secure in building on previous knowledge.	Students will need to use their problem-solving skills to be able to draw conclusions from data.	Students will demonstrate creativity as they look at the different ways of interpreting ratios and fractions, especially using bar models where appropriate.	Students will need to stay positive as they encounter trigonometry for the first time and ensure they feel secure in their knowledge.	Students will need to use their speaking skills as they explain their working and also explain conclusions from their graphs.	Students will need to stay positive as they extend their graphs knowledge to develop to several different types of graph and how to interpret these.	Students will need to aim high as they develop their area of circle knowledge to look at arcs and sectors.	Students will need to aim high when enlargement using negative and fractional scale factors as well as using loci in constructions.	Students will need to use their speaking skills as they explain their working and also explain the mistakes others have made.	Students will work together and use teamwork to solve probability problems in various forms.
Sequencing	Builds from KS3: Place Value Estimation HCF & LCM	Builds from KS3: Expand and Factorise expressions Formulae Sequences	Builds from KS3: Averages Range Scatter Graphs	Builds from KS3: Fractions Ratio Percentages	Builds from KS3: Angles in triangles Interior & Exterior angles Pythagoras' Theorem	Builds from KS3: Plotting linear graphs		Builds from KS3: Area Volume	Builds from KS3: Reflect Rotate Translate Enlarge	Builds from KS3: Solving equations	Builds from KS3: Outcomes
	Further develops in Y11: Percentages Compound Measures	Further develops in Y11: Simultaneous Equations Quadratic Equations	Further to develops in Y11: Cumulative Frequency Box Plots Histograms	Further to develops in Y11: Direct and Inverse Proportion	Further develops in Y11: Graphs of sine, cosine and tangent functions Trigonometric graphs	Further develops in Y11: Quadratic Graphs		Further develops in Y11: Circle Theorems Geometric Proof	Further develops in Y11: Similarity	Further develops in Y11: Quadratic Equations	Further develops in Y11: Revision of all probability skills
Retrieval											

New Learning										
Independent Practice				Functional Skills Task – Tax and National Insurance						
Misconceptions										
Vocabulary and Comprehension										
Literacy	Reading Link attached to each lesson.	Reading Link attached to each lesson.	Reading Link attached to each lesson.	Reading Link attached to each lesson.	Reading Link attached to each lesson.	Reading Link attached to each lesson.	Reading Link attached to each lesson.	Reading Link attached to each lesson.	Reading Link attached to each lesson.	Reading Link attached to each lesson.
Numeracy										
Oracy	Regular paired, group and class discussion	Regular paired, group and class discussion	Regular paired, group and class discussion	Regular paired, group and class discussion	Regular paired, group and class discussion	Regular paired, group and class discussion	Regular paired, group and class discussion	Regular paired, group and class discussion	Regular paired, group and class discussion	Regular paired, group and class discussion
Careers	Careers linked with Standard Form				Careers using angles in polygons and also Pythagoras' Theorem			Careers linking constructions of triangles and loci		
Super Curricular Links										
Cross-Curricular Links										
British values and SMSC										
Summative assessment										
Scaffolding for LA	Modelled Examples given to students.	Modelled Examples given to students.	Modelled Examples given to students.	Modelled Examples given to students.	Modelled Examples given to students.	Modelled Examples given to students.	Modelled Examples given to students.	Modelled Examples given to students.	Modelled Examples given to students.	Modelled Examples given to students.
Challenge for HA ☆	HA students to ensure completion of exam-based questions and, where appropriate, follow the Higher SoW	HA students to ensure completion of exam-based questions and, where appropriate, follow the Higher SoW	HA students to ensure completion of exam-based questions and, where appropriate, follow the Higher SoW.	HA students to ensure completion of exam-based questions and, where appropriate, follow the Higher SoW.	HA students to ensure completion of exam-based questions and, where appropriate, follow the Higher SoW	HA students to ensure completion of exam-based questions and, where appropriate, follow the Higher SoW	HA students to ensure completion of exam-based questions and, where appropriate, follow the Higher SoW	HA students to ensure completion of exam-based questions and, where appropriate, follow the Higher SoW	HA students to ensure completion of exam-based questions and, where appropriate, follow the Higher SoW	HA students to ensure completion of exam-based questions and, where appropriate, follow the Higher SoW