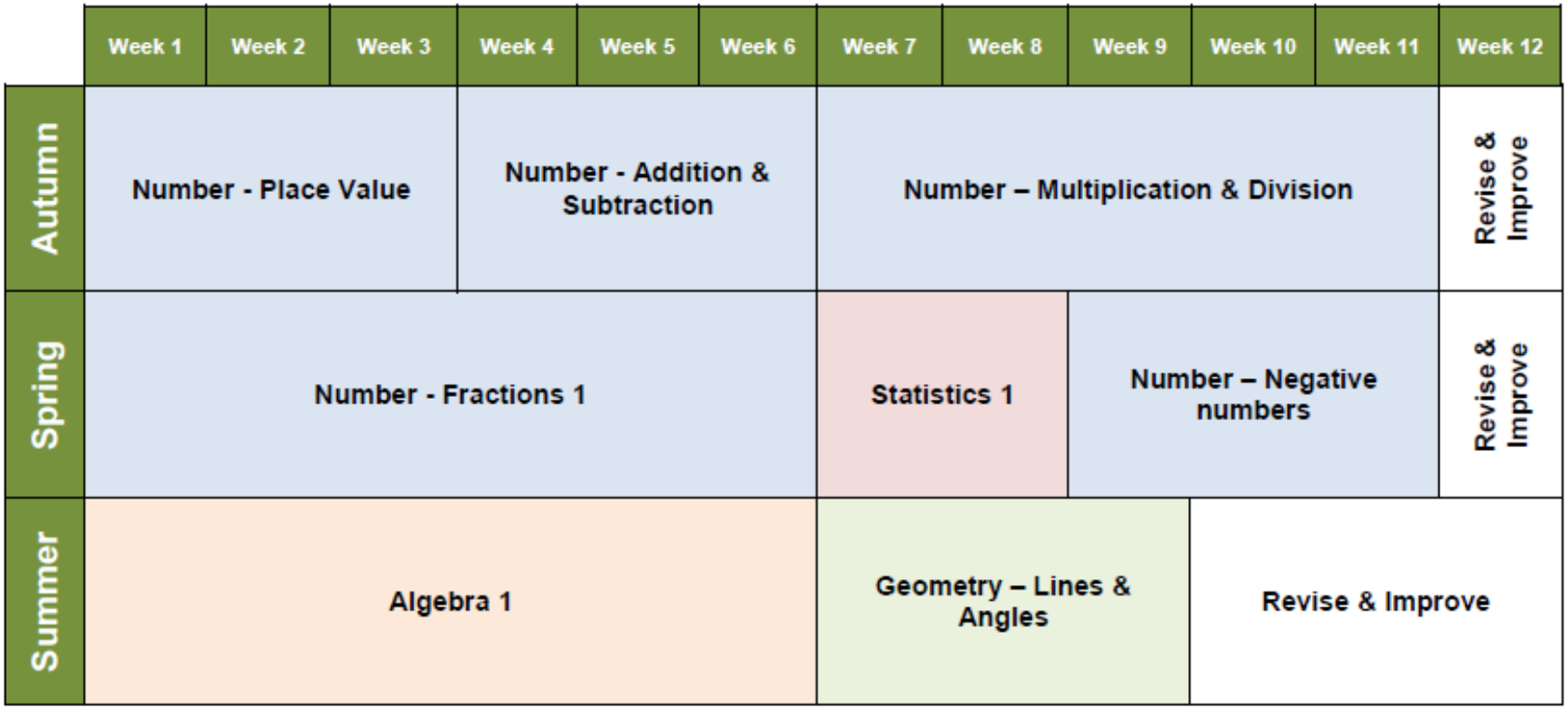
Term by Term Objectives

Year 7

Year 7 Overview



mathshub@trinityacademyhalifax.org

MathsHUBS White Rose

The Mastery Pathway

Term by Term Objectives

Year 8

Year 8 Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Revise & improve			Number – Fractions 2			Number – Percentages					Revise & Improve
Spring	Algebra 2							Geometry – Circles & Area				Revise & Improve
Summer	Ratio, proportion & rates of change						Statistics		Geometry – 3D shapes			Revise & Improve

mathshub@trinityacademyhalifax.org

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GCSE Mathematics

Scheme of work overview YEAR 9 FOUNDATION

	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	1a Integers and Place value		1b Decimals	1c Integers, powers and roots		1d Factors, multiples and primes	2a Algebra – the basics		2b Expanding and factorising single brackets		2c Expressions and substitution into formulae	
Spring	3a Tables		3b Charts and graphs	3c Pie charts		3d Scatter graphs	4a Fractions	4b Fractions, decimals and percentages		4c Percentages		5a Equations
Summer	5b Inequalities			5c Sequences			6a Properties of shapes, parallel lines and angle facts		6b Interior and exterior angles of polygons			

GCSE Mathematics

Scheme of work overview YEAR 9 HIGHER

	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	**1a Calculations, checking and rounding**		**1b Indices, roots, reciprocals & hierarchy of operations**		**1c Factors, multiples and primes**	**1d Standard form and surds**	**2a Algebra – the basics**		**2b Setting up, rearranging and solving equations**		**2c Sequences**	
Spring	**3a Averages and range**		**3b Representing and interpreting data**		**3c Scatter graphs**		**4a Fractions**		**4b Percentages**		**4c Ratio and proportion**	
Summer	**5a Polygons, angles and parallel lines**		**5b Pythagoras' Theorem and Trigonometry**		**6a Graphs – the basics and real life graphs**		**6a Linear graphs and coordinate geometry**		**6b Quadratic, cubic and other graphs**		**Review**	

GCSE Mathematics

Scheme of work overview YEAR 10 FOUNDATION

	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	7a Statistics and sampling		7b The averages		8a Perimeter and area		8b 3D forms and volume		9a Real life graphs		9b Straight line graphs	
Spring	10a Transformations: translations, rotations and reflections						10b Transformations: enlargements and combinations		11a Ratio		11b Proportion	
Summer	12 Pythagoras' Theorem		13a Probability 1		13b Probability 2		14 Multiplicative reasoning		15a Plans and elevations		15b Constructions, loci and bearings	

GCSE Mathematics

Scheme of work overview YEAR 10 HIGHER

	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	**7a** **Perimeter, area and circles**		**7b** **3D forms and volume, cylinders, cones and spheres**		**7c** **Accuracy and bounds**		**8a** **Transformations**		**8b** **Constructions, loci and bearings**		**9a** **Solving quadratic and simultaneous equations**	
Spring	**9b** **Inequalities**			**10** **Probability**			**11** **Multiplicative reasoning**			**12** **Similarity and congruence in 2D and 3D**		
Summer	**13a** **Graphs of trigonometric functions**		**13b** **Trigonometry and further trigonometry**		**14a** **Collecting data**		**14b** **Cumulative frequency, box plots and histograms**		**15** **Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics**		**16a** **Circle theorems**	

GCSE Mathematics

Scheme of work overview YEAR 11 FOUNDATION

	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	**16a Quadratic equations: expanding and factorising**		**16b Quadratic equations: graphs**		**17 Circles, cylinders, cones and spheres**		**18a Fractions and reciprocals**		**18b Indices and standard form**	**19a Similarity and congruence in 2D**	**19b Vectors**	**20 Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations**
Spring	**Revision Programme and preparation for exams**											
Summer												

GCSE Mathematics

Scheme of work overview YEAR 11 HIGHER

	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	**16b** **Circle geometry**		**17** **Changing the subject of formulae (more complex), algebraic fractions, surds, functions.**		**18** **Vectors and geometric proof**		**19a** **Reciprocal and exponential graphs; gradient and area under graphs**			**19b** **Proportion and graphs**		
Spring	**Revision Programme and preparation for exams**											
Summer												