

HIAS Scheme of Learning for Mathematics (Year 1 – Year 9)

Long Term Overview Plans for KS1, KS2 & KS3

Hampshire Maths Team
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Final version

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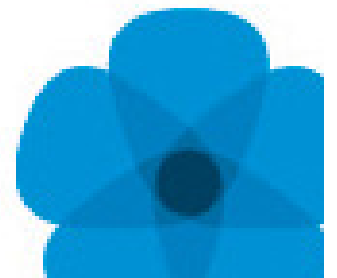
Overview : Y1 to Y6

This document contains...

Long term overviews for the HIAS scheme of learning for mathematics for classes taught as single year groups

Points to consider when using this resource

- This long-term plan identifies the key focus in each unit of work in the HIAS scheme of learning for mathematics. For more detail and a break-down of these objectives please refer to the relevant medium and unit plans.
- Medium term plans identify the objectives to be addressed in each unit.
- Unit plans identify a learning journey, required prior knowledge, misconceptions, key vocabulary, and suggested tasks. Appropriate models, images , concrete resources, and visual representations are an implicit element in all units
- Plans are based on a 14-week term and will need to be adjusted on a term-by-term basis



Year 1 – Yearly 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	Week 13	Week 14
Autumn	1.1 Number: Place Value			1.1 Addition and subtraction	1.2 Measurement Money / length	1.2 Addition and subtraction		1.3 Multiplication and division (2s)		1.3 Fractions and geometry	1.4 Number: Place Value	1.4 Addition and subtraction		
	Measurement: Utilise everyday opportunities to develop understanding of the passing of time (hours) and 'time' language (yesterday, tomorrow, morning, afternoon, evening) and comparative language (quicker, slower etc). Introduce days of the week ,months and dates													
Spring	1.5 Addition and subtraction			1.5 Measurement Time and mass	1.6 Fractions and geometry	1.6 Multiplication and division		1.7 Number and PV	1.7 Subtraction and addition		1.8 Addition and subtraction with money		1.9 Addition and subtraction with mass	
	Measurement: Utilise everyday opportunities to develop understanding of the passing of time (hours and half-hours)													
Summer	1.10 Multiplication and division				1.11 Geometry	1.12 Number: Place Value Addition and subtraction			1.13 Fractions with multiplication and division	1.14 Measurement: Time, capacity and volume		1.15 Geometry		

Year 2 – Yearly Overview

HIAS MOODLE+ RESOURCE

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	2.1 Number: Place Value	2.1 Addition and Subtraction			2.2 Measurement: Money		2.2 Addition and subtraction	2.3 Multiplication and division		2.3 Fractions and geometry	2.4 Number: Place Value with addition and subtraction		2.4 Statistics	
	Measurement: Time : Utilise everyday opportunities to tell the time and develop the days of the week and the months of the year Calculation: Utilise everyday contexts to increase fluency with mental strategies using number facts to 20													
Spring	2.5 Addition and subtraction		2.5 Measurement: Mass and time		2.6 Fractions and geometry	2.6 Multiplication and division		2.7 Number and PV with Addition and Subtraction		2.7 Statistics	2.8 Addition and subtraction with money	2.8 Fractions	2.9 Measurement with geometry	2.9 Addition and subtraction
	Measurement: Time: Utilise everyday opportunities to tell the time and develop knowledge of 24 hours in a day and 60 minutes in an hour													
Summer	2.10 Multiplication and division				2.11 Statutory Tests	2.12 Number: Place Value Addition and subtraction			2.13 Fractions with multiplication and division		2.14 Measure		2.15 Geometry	

Year 3 – Yearly 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	Week 13	Week 14
Autumn	3.1 Number: Place Value Addition and Subtraction			3.2 Addition and subtraction with Measurement (Money, Length)		3.3 Multiplication and Division		3.4 Fractions and Geometry			3.5 Number: Place Value with Measurement (Length, Mass, Time)			
	Measurement: Time : Utilise everyday opportunities to tell the time from an analogue clock. Use the vocabulary of time (am/pm; morning/afternoon; noon/midnight. Know the number of days in each month, year and leap year													
Spring	3.6 Fractions and Geometry			3.7 Subtraction and addition			3.8 Measurement: Time	3.9 Multiplication and Division with Fractions (To include times tables)		3.10 Subtraction and addition with statistics Measurement (volume, capacity and scales)				
	Measurement: Time: Utilise everyday opportunities to tell the time, including on a clock face with Roman numerals. Number: Practise counting in multiples of 3, 4 and 50 , and in 100s from any number.													
Summer	3.11 Multiplication and division			3.12 Geometry		3.13 Addition and subtraction		3.14 Multiplication and Division with Fractions		3.15 Measurement (Money, Time)		3.16 Measurement (Length)		

Year 4 – Yearly 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	Week 13	Week 14
Autumn	4.1 Number: Place Value Addition and Subtraction			4.2 Addition and subtraction with Measurement (Money, Length)		4.3 Multiplication and Division		4.4 Fractions and Geometry			4.5 Number: Place Value with Measurement (Length, Mass, Time)			
	Measurement: Time : Utilise everyday opportunities to tell the time from an analogue clock and a 24-hour clock. Estimate and read time with increasing accuracy to the nearest minute. Convert from hours to minutes, minutes to seconds, years to months, weeks to days.													
Spring	4.6 Fractions and Geometry			4.7 Subtraction and addition			4.8 Measurement: Time	4.9 Multiplication and Division with Fractions (To include times tables)			4.10 Subtraction and addition with statistics Measurement (volume, capacity and scales)			
	Measurement: Time: Utilise everyday opportunities to tell the time, including on a clock face with Roman numerals. Convert to 12-hour and 24-hour time. Read Roman numerals to 100 (C) . Practise counting in multiples of 25 and 1000 from zero													
Summer	4.11 Multiplication and division			4.12 Geometry		4.13 Addition and subtraction with statistics		4.14 Multiplication and Division with Fractions			4.15 Measurement (Money, Time)		4.16 Measurement (Length)	

Year 5 – Yearly 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	Week 13	Week 14
Autumn	5.1 Number: Place Value Addition and Subtraction (length)			5.2 Multiplication and Division Measurement (Area and arrays)			5.3 Fractions	5.4 Fractions and Geometry Measurement (time)			5.5 Number: Place Value with Measurement (Mass, Capacity) and all four operations			
	Measurement: Utilise everyday opportunities to convert units using place value understanding and knowledge of tables facts													
Spring	5.6 Fractions (%) and Geometry			5.7 Subtraction and addition (whole numbers and fractions)			5.8 Statistics	5.9 Fractions with Measurement (volume, capacity, metric and imperial)			5.10 Subtraction and addition (mental strategies)		5.11 Multiplication and division (tables and related facts)	
	Measurement: Utilise everyday opportunities to convert units using place value understanding and knowledge of tables facts. Practise mental strategies using facts, related derived facts and place value knowledge such as adding 99 , adding 0.99, near doubles etc.													
Summer	5.12 Multiplication and division		5.13 Geometry	5.14 All four operations (mixed problem solving)		5.15 Addition and subtraction (secure formal)		5.16 Fractions (%) with geometry			5.17 Multiplication and division (secure formal)		5.18 All four operations with decimals and measure	

Year 6 – Yearly 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	Week 13	Week 14
Autumn	6.1 Number: Place Value Addition and Subtraction (length and equations)			6.2 Multiplication and Division (with equations)			6.3 Fractions	6.4 Percentages and Geometry (angle and circles) with measurement (time)			6.5 Number: Place Value with Measurement (Mass, Capacity) and all four operations			
	Utilise everyday opportunities to develop fluency with a broad range of arithmetic strategies in the context of the current unit of work. Revise and consolidate key facts for measurement and conversion of units of measure.													
Spring	6.6 Fractions with Ratio and Geometry			6.7 Subtraction and addition (whole numbers and fractions) with linear sequences			6.8 Statistics	6.9 Algebra and formulae with Measurement (volume, capacity, metric and imperial)			6.10 All four operations with statistics (formal and informal methods)		6.11 Geometry with fractions	
	Utilise everyday opportunities to develop fluency with a broad range of arithmetic strategies in the context of the current unit of work. Revise and consolidate key facts for measurement and conversion of units of measure.													
Summer	6.12 Multiplication and division with squares, cubes and primes			6.13 Statutory Tests	6.14 Fractions and equivalence		6.15 All four operations (whole numbers and fractions)		6.16 Geometry with fractions, ratio and proportion			6.17 Multiplication and division (secure formal)		6.18 All four operations with decimals and measure

Overview : Y7 to Y9

This document contains...

Long term overviews for the HIAS scheme of learning for mathematics for classes taught as single year groups in KS3

Points to consider when using this resource

- This long-term plan identifies the key focus in each unit of work in the HIAS scheme of learning for mathematics. For more detail and a break-down of these objectives please refer to the relevant medium and unit plans.
- Medium term plans identify the objectives to be addressed in each unit.
- Unit plans identify a learning journey, required prior knowledge, misconceptions, key vocabulary, and suggested tasks. Appropriate models, images , concrete resources, and visual representations are an implicit element in all units
- Plans are based on a 10-week term to allow for assessment activities . They will need to be adjusted on a term-by-term basis according to individual timetables and student need.



Year 7 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Autumn	7.1 Algebra Notation Sequences		7.2 Four operations with rounding and approximation		7.3 Geometry Perimeters	7.4 Geometry with formulae	7.4 Ratio (fractional quantities) Calculation (order of operations)		7.5 Ratio (units conversion) with indices	
Spring	7.6 Fractions	7.7 Probability	7.8 Geometry Polygons and polyhedra			7.9 Percentages with ratio and proportion			7.10 Coordinates with linear functions	
Summer	7.11 Geometry (angle)	7.12 Statistics				7.13 Geometry with area and volume	7.14 Algebra Sequences Linear equations		7.15 Fractions, decimals and percentages with indices	

Year 8 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Autumn	8.1 Four operations Fractions Directed number			8.2 Geometry (shape and angle)		8.3 Probability	8.4 Ratio % change	8.5 Algebra Sequences Equations and formulae		
Spring	8.6 Geometry (perimeter and area)	8.7 Accuracy (powers and roots)	8.8 Compound measures	8.9 Statistics (charts, graphs and averages)		8.10 Prime factorisation Standard Form			8.11 Graphs (linear & quadratic) Sim. equations	
Summer	8.12 Geometry Similarity & Congruence Constructions		8.13 Probability (theoretical)		8.14 Statistics (scatters)	8.15 Decimals and fractions	8.16 Algebra Different graphs Modelling		8.17 Rates of change (%) Number (LCM/ HCF)	

Year 9 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Autumn	9.1 Number: Standard Form Roots, powers & reciprocals Compound measure			9.12 Geometry Area, perimeter and property of shape		9.3 Algebra and statistics (linear and quadratic graphs)		9.4 Probability (sample spaces)	9.5 Geometry Prisms & cylinders Congruence Pythagoras	
Spring	9.6 Probability (sets and Venns)	9.7 Statistics (bivariate data)	9.8 Proportion (direct and indirect) Powers and roots			9.9 Approximation Compound units		9.10 Geometry Pythagoras and trigonometry Constructions		9.11 Algebra Functions
Summer	9.12 Pythagoras and trigonometry		9.13 Number: Standard Form Integers, powers and roots Accuracy			9.14 Probability	9.15 Statistics Averages Stem & Leaf Frequency tables		9.16 Algebra Functions (graphs) Manipulation of equations	

HIAS Maths Team

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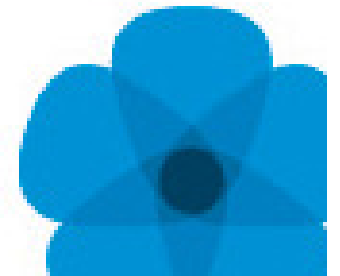
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Spring	7.6 Fractions	7.7 Probability	7.8 Geometry Polygons and polyhedra			7.9 Percentages with ratio and proportion			7.10 Coordinates with linear functions	
Summer	7.11 Geometry (angle)	7.12 Statistics				7.13 Geometry with area and volume	7.14 Algebra Sequences Linear equations		7.15 Fractions, decimals and percentages with indices	

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	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
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Spring	8.6 Geometry (perimeter and area)	8.7 Accuracy (powers and roots)	8.8 Compound measures	8.9 Statistics (charts, graphs and averages)		8.10 Prime factorisation Standard Form			8.11 Graphs (linear & quadratic) Sim. equations	
Summer	8.12 Geometry Similarity & Congruence Constructions		8.13 Probability (theoretical)		8.14 Statistics (scatters)	8.15 Decimals and fractions	8.16 Algebra Different graphs Modelling		8.17 Rates of change (%) Number (LCM/ HCF)	

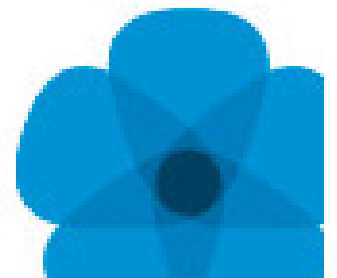
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	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Autumn	9.1 Number: Standard Form Roots, powers & reciprocals Compound measure			9.12 Geometry Area, perimeter and property of shape		9.3 Algebra and statistics (linear and quadratic graphs)		9.4 Probability (sample spaces)	9.5 Geometry Prisms & cylinders Congruence Pythagoras	
Spring	9.6 Probability (sets and Venns)	9.7 Statistics (bivariate data)	9.8 Proportion (direct and indirect) Powers and roots			9.9 Approximation Compound units		9.10 Geometry Pythagoras and trigonometry Constructions		9.11 Algebra Functions
Summer	9.12 Pythagoras and trigonometry		9.13 Number: Standard Form Integers, powers and roots Accuracy			9.14 Probability	9.15 Statistics Averages Stem & Leaf Frequency tables		9.16 Algebra Functions (graphs) Manipulation of equations	

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