Hampshire County Council
Improvement and Advisory Service

HIAS MOODLE+ RESOURCE

HIAS Scheme of Learning for Mathematics

Medium Term Plans for Year 4

HIAS Maths Team
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Final version

Overview

This document contains…
Long-term curriculum map for Year 4
Medium-term overview plans for Year 4 designed to support single age classes

Points to consider when using this resource
This medium-term plan outlines the 'I can' learning journey across the year for each content domain, showing how key objectives are progressively developed and built upon within each unit.

For more detail and a break-down of these objectives please refer to the relevant unit plan.
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.

The objectives set out for the summer term (Milestone 4) are the statutory end-of-year expectations from the National Curriculum. These should be used to ensure pupils have secured the required knowledge and understanding by the end of the academic year**.**

A suggested schedule for assessment is included as colour-coded bands, linked to the Hampshire Assessment Model if required.

Plans are based on a **39-week school year** and will need to be **adjusted** on a term-by-term basis.

Long term curriculum map for Year 4

Year 4 – Yearly Overview

Hampshire Services

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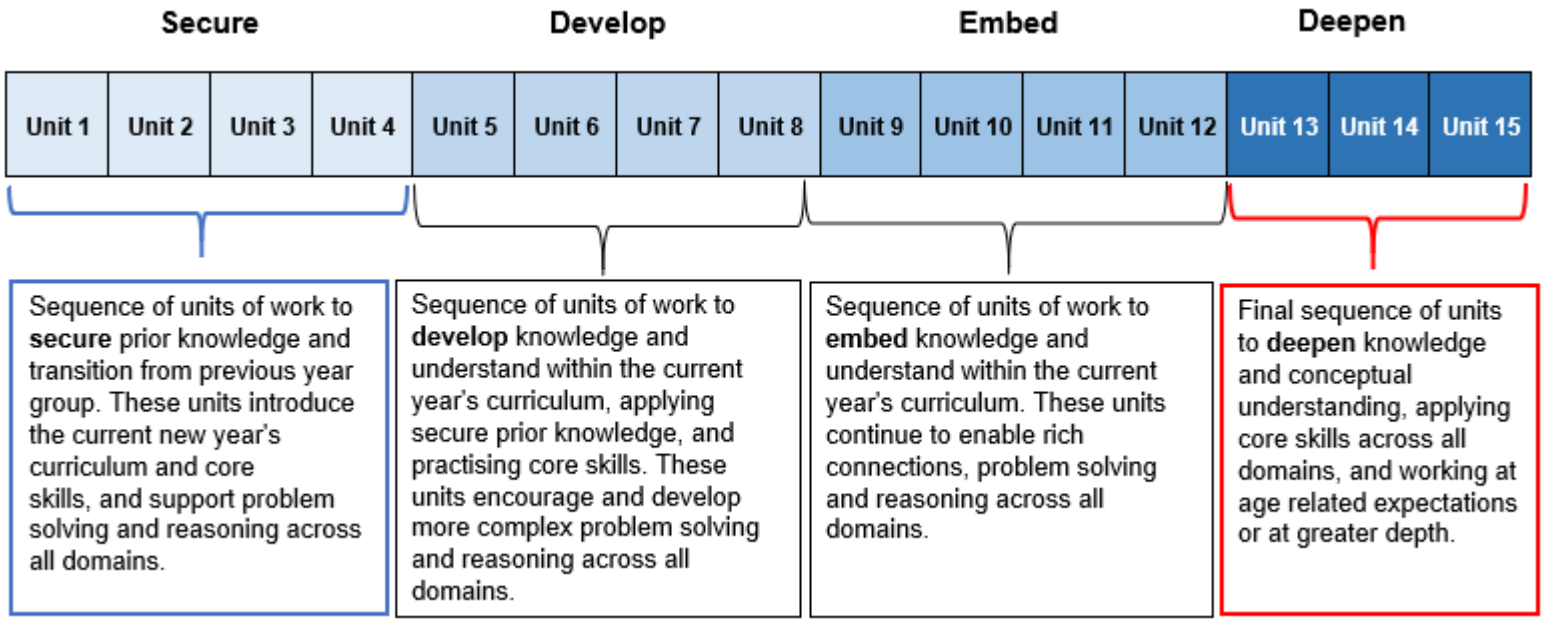
Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Autumn	4.1 Number and Place Value Addition and Subtraction			4.2 Measurement		4.3 Multiplication and Division		4.4 Fractions			4.4 Geometry	4.5 Addition and Subtraction	4.5 Measurement	
Spring	4.6 Fractions		4.6 Geometry	4.7 Number and Place Value Addition and Subtraction			4.8 Measurement	4.9 Multiplication and Division		4.9 Fractions	4.10 Number and Place Value	4.10 Statistics		
Summer	4.11 Multiplication and Division			4.12 Geometry		4.13 Number and Place Value Addition and Subtraction		4.14 Multiplication and Division		4.14 Fractions	4.15 Addition and Subtraction		4.16 Measurement	

Overview of curriculum intent



Key for assessment bands

AM1	AM2	AM3	ARE
Assessment Milestone 1	**Assessment Milestone 2**	**Assessment Milestone 3**	**Assessment ARE**

Learning Journey – Number and Place Value

Autumn unit 4.1 (2 weeks)	Spring unit 4.7 (1 week)	Spring 4.10 (1 week)	Summer 4.13 (1 week)
I can read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value.			
I can count in multiples of 100. I can count in multiples of 1000. I can count in multiples of 6. I can recognise the place value of each digit in a three-digit number. I can recognise the place value of each digit in a four-digit number. I can identify and represent numbers using different representations. I can reason about the location of a three-digit number on a number line. I can reason about the location of a four-digit number on a number line. I can compare and order numbers up to 1000. I can compare and order numbers beyond 1000. I can find 10 or 100 more or less than a given number. I can find 1000 more or less than a given number.	I can count in multiples of 50. I can count in multiples of 25. I can count in multiples of 7 I can reason about the location of a four-digit number on a number line. I can round any number to the nearest 10. I can round any number to the nearest 100. I can round any number to the nearest 1000.	I can count in multiples of 9. I can read roman numerals to 100. I count backwards through zero to include negative numbers. I can recognise the place value of each digit in a four-digit number. I can solve number and practical problems.	I can identify, represent and estimate numbers using different representations. I can order and compare numbers beyond 1000. I can round any number to the nearest 10, 100 or 1000. I can solve number and practical problems.

Learning Journey – Addition and Subtraction

Autumn unit 4.1 (1 week)

I can add and subtract mentally a three-digit number and ones.

I can add and subtract mentally a four-digit number and ones.

I can add and subtract mentally a three-digit number and tens.

I can add and subtract mentally a four-digit number and tens.

I can add and subtract mentally a three-digit number and hundreds.

I can add and subtract mentally a four-digit number and hundreds.

I can solve problems using number facts (complements to 100).

I can solve problems using number facts (complements to 1000).

Autumn unit 4.5 (1 week)

I can use inverse operations to check answers.

I can add and subtract numbers with up to three-digits using formal written methods.

I can add and subtract numbers with up to four-digits using formal written methods.

I can solve addition and subtraction one-step problems in context, deciding which operations and methods to use and why.

I can solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why.

Spring unit 4.7 (2 weeks)

I can estimate the answer to a calculation and use inverse operations to check answers.

I can add and subtract mentally a four-digit number and ones.

I can add and subtract mentally a four-digit number and tens.

I can add and subtract mentally a four-digit number and hundreds.

I can solve problems using number facts (complements to 1000).

I can add and subtract numbers with up to four-digits using formal written methods.

I can solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why

Spring unit 4.13 (1 week)

Repeats in measurement learning journey

I can add and subtract amounts to money to give change,

I can add and subtract lengths.

I can add and subtract mass.

I can add and subtract volume.

Summer unit 4.15 (2 weeks)

I can estimate and use inverse operations to check answers to a calculation.

I can add and subtract with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.

I can solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

Learning Journey – Multiplication and Division

Autumn unit 4.3 (2 weeks)	Spring unit 4.9 (2 weeks)	Summer 4.11 (3 weeks)	Summer unit 4.14 (2 weeks)
I can recall and use multiplication and division facts for the 3 times table. I can recall and use multiplication and division facts for the 4 times table. I can recall and use multiplication and division facts for the 8 times table. I can find fact families for the 3, 4 and 8 times table. I can multiply by 0 and 1. I can divide by 1. I can multiply three numbers (commutative) I can use place value, known and derived facts to multiply mentally. I can use place value, known and derived facts to divide mentally.	I can recall and use multiplication and division facts for the 6 times table. I can recall and use multiplication and division facts for the 12 times table. I can find fact families for the 6- and 12-times table. I can recognise and use factor pairs and commutativity in mental calculations. I can solve problems using the distributive law to multiply one-digit numbers by one digit. I can solve problems using the distributive law to multiply two-digit numbers by one digit. I can multiply two-digit numbers by one-digit numbers using known facts (box array). I can divide two-digit numbers by one-digit numbers using known facts (box array). I can solve missing number problems involving multiplication and division. I can solve scaling problems involving multiplication. I can solve scaling problems involving division.	I can recall and use multiplication and division facts for the 7 times table. I can find fact families for the 7 times table. I can solve problems using the distributive law to multiply one-digit numbers by one digit. I can solve problems using the distributive law to multiply two-digit numbers by one digit. I can multiply a two-digit number by a one-digit number using the grid method. I can multiply a three-digit number by a one-digit number using the grid method. I can solve scaling problems involving multiplication. I can divide two-digit numbers by one-digit numbers using short division. I can solve scaling problems involving division.	I can recall and use multiplication and division facts for the 9 times table. I can recall and use multiplication and division facts for the 11 times table. I can recall multiplication and division facts for multiplication tables up to 12 × 12 I can find fact families for the 9- and 11-times table. I can use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers I can recognise and use factor pairs and commutativity in mental calculations I can multiply two-digit and three-digit numbers by a one-digit number using formal written layout I can solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Learning Journey – Fractions

Autumn unit 4.4 (3 weeks)	Spring unit 4.6 (2 weeks)	Summer 4.9 (1 week)	Summer unit 4.14 (1 week)
I can count up and down in tenths; recognise that tenths arise from dividing an objects into 10 equal parts and in dividing one-digit numbers or quantities by 10. I can count up and down in hundredths. I can recognise that hundredths arise when dividing an object by 100. I can recognise that hundredths arise when dividing tenths by ten. I can divide a one-digit number by 10 and 100. I can divide a two-digit number by 10 and 100. I can compare numbers with the same number of decimal places up to two decimal places. I can recognise and write decimal equivalents of any number of tenths. I can recognise and write decimal equivalents of any number of hundredths. I can solve simple problems involving decimals to two decimal places.	I can recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. I can recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. I can solve problems involving fractions to calculate quantities. I can compare and order unit fractions and fractions with the same denominators. . I can recognise and show, using diagrams, equivalent fractions with small denominators. I can add fractions with the same denominator. I can subtract fractions with the same denominator. I can recognise and show families of common equivalent fractions. I can recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$	I can count up and down in tenths. I can count up and down in hundredths. I can round decimals with one decimal place to the nearest whole number. I can solve simple measure and money problems involving fractions and decimals to two decimal places.	I can recognise and show families of common equivalent fractions. I can recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$. I can add and subtract fractions with the same denominator. I can solve problems involving fractions to calculate quantities. I can solve simple measure and money problems involving fractions and decimals to two decimal places.

Learning Journey – Measurement

Autumn unit 4.2 (2 weeks)	Autumn unit 4.5 (2 weeks)	Spring unit 4.8 (1 week)	Summer unit 4.13 (1 week)
I can add and subtract amounts of money to give change. I can measure and compare lengths. I can add and subtract lengths. I can measure and compare mass. I can add and subtract mass. I can measure and compare volume and capacity. I can add and subtract volume and capacity. I can tell and write the time to the nearest minute on an analogue clock. I can use vocabulary a.m and p.m. I can read the time on a digital clock.	I can convert between different units of measure (length). I can convert between different units of measure (mass). I can convert between different units of measure (volume and capacity). I can read and write the time on an analogue and a digital clock (12-hour). I can read and write the time on an analogue and a digital clock (24- hour). I can convert time between analogue and digital 12- and 24- hour clocks. I can solve problems involving converting from hours to minutes. I can solve problems involving converting minutes to seconds. I can solve problems involving converting years to months. I can solve problems involving converting weeks to days.	I can measure the perimeter of simple 2-D shapes. I can measure the perimeter of a rectilinear figure in centimetres and metres. I can calculate the perimeter of a rectilinear figure in centimetres and metres. I can find the area of rectilinear shapes by counting squares.	*Repeats in addition and subtraction learning journey* I can add and subtract amounts to money to give change. I can add and subtract lengths. I can add and subtract mass. I can add and subtract volume.
			Summer unit 4.16 (1 week)
			I can convert between different units of measure. I can estimate, compare and calculate different measures including money in pounds and pence. I can calculate the perimeter of a rectilinear figure in centimetres and metres. I can find the area of rectilinear shapes by counting squares. I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Learning Journey – Geometry (properties of shape and position and direction)		
Autumn unit 4.4 (1 week)	**Spring unit 4.6 (1 week)**	**Summer unit 4.12 (2 weeks)**
I can recognise 3-D shapes in different orientations and describe them. I can identify 2-D shapes on the surface of 3-D shape. I can compare and classify geometric shapes. I can identify horizontal and vertical lines, and pairs of perpendicular and parallel lines. I can identify line symmetry in a vertical line. I can identify lines of symmetry in 2-D shapes presented in different orientations.	I can recognise angles as a property of shape or a description of a turn. I can identify right angles. I can identify whether angles are greater than or less than a right angle. I can identify acute and obtuse angles. I can compare and order angles up to two right angles by size.	I can compare and classify geometric shapes. I can identify acute and obtuse angles and compare and order angles up to two right angles by size. I can identify lines of symmetry in 2-D shapes presented in different orientations. I can complete a simple symmetric figure with respect to a specific line of symmetry.
I can describe positions on a 2-D grid as coordinates in the first quadrant.	I can describe movements between positions as translations of a given unit to the left/right and up/down.	I can plot specified points and draw sides to complete a given polygon.

Learning Journey – Statistics

Spring 4.10 (1 week)

I can interpret and present discrete data using appropriate graphical methods.

I can interpret and present continuous data using appropriate graphical methods.

I can solve comparison, sum and difference problems using information presented in pictograms.

I can solve comparison, sum and difference problems using information presented in bar charts.

I can solve comparison, sum and difference problems using information presented in tables.

HIAS Maths Team

Jo Lees – Lead Inspector
Email: jo.lees@hants.gov.uk

Kate Spencer – Lead Inspector
Email: kathryn.spencer@hants.gov.uk

Rebecca Vickers – Teaching & Learning Adviser
Email: rebecca.vickers@hants.gov.uk

Nikki Barber – Teaching & Learning Advisor
Email – nicola.barber@hants.gov.uk

Olivia Goodburn – Teaching & Learning Advisor
Email – olivia.goodburn@hants.gov.uk

For further details on the full range of services available please contact us using the following email:

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