Using the plans

This is not a scheme but it is more than a medium term plan The programme of study has been split into four domains:

- Number
- Measurement
- Geometry
- Statistics

As a starting point, we have taken these domains and allocated them into five half terms:

Year 4					
Autumn 1	Number				
	- number and place value				
	- addition and subtraction				
Autumn 2	Number				
	 multiplication and division 				
	- fractions				
Spring 1	Measurement				
Spring 2	Geometry				
	- properties of shapes	437			
	- position and direction				
Summer 1	Statistics				

These allocations serve only as a guide for the organisation of the teaching. Other factors such as term length, organisation of the daily maths lesson, prior knowledge and cross-curricular links may determine the way in which mathematics is prioritised, taught and delivered in your school.













	YEAR 4 PROGRAMME OF STUDY						
	DOMAIN 1 - NUMBER						
	NEW OBJECTIVES – AUTUMN 1						
	NUI IBER AND PLACE VALUE						
	Objectives (statutory requirements)	What does this mean?	Example questions	Notes and guidance (non-statutory)			
	Count in multiples of 6, 7, 9, 25 and 1000	Count out loud forwards and backwards from different starting points and in steps of different sizes	Tell me all the multiples of 6 between 28 and 60 If I count in steps of 9 from zero, how many numbers will I have said by the time I get to 56? Tell me which multiples of 25 are between 386 and 471 How many multiples of 1000 are there between 2500 and 9600?	Using a variety of representations, including measures, pupils become fluent in the order and place value of numbers beyond 1000, including counting in tens and hundreds, and maintaining fluency in other multiples through varied and frequent practice. They begin to extend their knowledge of the number system to include the decimal numbers and fractions that			
	Find 1000 more or less than a given number	When presented with numbers up to four digits, children can say the number that is 1000 more or less	Give four digit cards (e.g. 3, 8, 0, 2) can they make number 1000 more or less?	they have met so far. They connect estimation and rounding numbers to the use of measuring instruments.			
	Count backwards through zero to include negative numbers	Build on the counting skills identified previously to include bridging zero into negative numbers		Roman numerals should be put in their historical context so pupils understand that there have been different ways to			
)		Using different starting points, count backwards beginning with steps of one and progressing to increased step sizes bridging zero	8, 6, 4 1, -3, -7	write whole numbers and that the important concepts of zero and place value were introduced over a period of time.			







CONTINUOUS OBJECTIVES - AUTUMN 2

Solve number and practical problems that involve all of the above and with increasingly large positive numbers number and place value Be able to use known facts in order to explore others, commutativity and inverse but also the relationship between numbers:

• 14 x 4 is also 7 x 8 because one side of the multiplication is halved, the other side is doubled

Starting with $8 \times 5 = 40$:

- $5 \times 8 = 40$ (and $40 = 5 \times 8$, $40 = 8 \times 5$
- * Understanding the inverse relationship between multiplication and division leads to equivalent statements, such as 8 = 40 ÷ 5 and $40 \div 8 = 5$
- · Knowing division is not commutative, so 8 ≠ 5 ÷ 40

Be able to answer word, logic and reasoning problems linked to place value

Are all these statements true?

- If $14 \times 7 = 98$ then $98 \div 7 = 14$
- If $14 \times 7 = 98$ then $98 \div 14 = 7$
- If $14 \times 7 = 98$ then $7 \div 98 = 14$

• If $14 \times 7 = 98$ then $140 \times 70 = 980$

Convince me that the number half way between 12 and 40 is 26

Fill in the missing numbers:

- $6 \times = 600$
- + 100 = 6
- $0.6 \times \Box = 60$

Find the numbers that could fit the following clues:

- Less than 100
- Not a multiple of 5
- Not odd
- · Tens digit is double the units digit













MAIN 3 - GEOMETRY

CTIVES - SPRING 2

PROPERTIES OF SHAPES

(statutory requirements)
Compare and classify
geometric shapes,
including quadrilaterals
and triangles, based on
their properties and

sizes

Objectives

What does thi A quadrilateral is any four sided

shape with straight sides that is

two dimensional Examples of regular

quadrilaterals include:

parallelogram, rhombus, trapezium, rectangle, square and kite





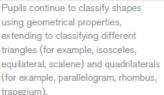


Example questions









Notes and guidance

(non-statutory)

Pupils compare and order angles in preparation for using a protractor and compare lengths and angles to decide if a polygon is regular or irregular.

Pupils draw symmetric patterns using a variety of media to become familiar with different orientations of lines of symmetry; and recognise line symmetry in a variety of diagrams, including where the line of symmetry does not dissect the original shape.



Examples of triangles include:

equilateral, isosceles, scalene and right angled

Building on understanding of the terms parallel, perpendicular, symmetrical etc., children use this to compare and classify shapes in different ways



Two equal sides Two equal angles



Irregular quadrilaterals

Three equal sides Three equal angles, always 60°



Scalene No equal angles











