

Kentish Town C of E Primary School

Year 4 Yearly Overview

Red objectives are essential; these should be prioritised within planning and revisited throughout the year. They are core learning on which next year's curriculum is based. All objectives need to be taught and, where possible, combine objectives so that application is stressed, e.g. fractions of measures

Number: Number and Place Value								
Counting		Identifying, representing & estimating		Comparing numbers	Understanding place value	Reading and writing numbers	Rounding	Problem solving
Count in multiples of 6, 7, 9, 25 and 1000	Find 1000 more or less than a given number	Count backward through zero to include negative numbers	Identify, represent and estimate numbers using different representations	Order and compare numbers beyond 1000	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	Round any number to the nearest 10, 100 and 1000	Solve number and practical problems that involve all of the above and with increasingly large positive numbers
Number: Addition and Subtraction								
Written Calculation			Inverse, estimating & checking answers			Problem solving		
Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate (expanded then compact column addition/ subtraction)			Estimate and use inverse operations to check answers to a calculation			Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why		
Number: Multiplication and Division								
Mental and Written calculation		Multiplication & division facts		Properties of numbers	Inverse, estimating & checking answers	Problem solving		
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		Multiply 2-digit and 3-digit numbers by a one-digit number using formal written layout (Grid method)		<i>count in multiples of 6, 7, 9, 25 and 1000</i>	recall multiplication and division facts for tables up to 12x12	recognise and use factor pairs and commutativity in mental calculations	Estimate and use inverse operations to check answers to a calculation	Solve problems involving multiplying & adding , including using the distributive law to multiply 2-digit nos by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
Number: Fractions								
Counting	Recognising fractions	Comparing decimals	Rounding		Equivalence			
Count up and down in hundredths	recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	Compare numbers with the same number of decimal places up to two decimal places	Round decimals with one decimal place to the nearest whole number		Recognise and show, using diagrams, families of common equivalent fractions	Recognise and write decimal equivalents of any number of tenths or hundredths	Recognise and write decimal equivalents to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$	

Addition and subtraction	Multiplication and division		Problem solving			
Add and subtract fractions with the same denominator	Find effect of dividing a one- or two-digit no. by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths		Solve simple measure and money problems involving fractions and decimals to two decimal places	Solve problems involving increasingly harder fractions to calculate quantities , and fractions to divide quantities, including non-unit fractions where the answer is a whole number		
Measurement						
Comparing & estimating	Measuring and calculating			Telling the time		
estimate, compare and calculate different measures, including money in pounds and pence	find the area of rectilinear shapes by counting squares	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	Convert between different units of measure [for example, kilometre to metre; hour to minute]	read, write and convert time between analogue and digital 12- and 24-hour clocks	solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	
Geometry: Properties of Shape				Geometry: Position and Direction		
Identifying properties	Comparing and classifying	Drawing & constructing	Angles	Position, direction and movement		
Identify lines of symmetry in 2-D shapes presented in different orientations	Compare/classify geometric shapes, incl. quadrilaterals and triangles, based on their properties/ sizes	Complete a simple symmetric figure with respect to a specific line of symmetry	Identify acute and obtuse angles and compare and order angles up to two right angles by size	describe positions on a 2-D grid as coordinates in the first quadrant	describe movements between positions as translations of a given unit to the left/right and up/down	plot specified points and draw sides to complete a given polygon
Statistics						
Interpreting, constructing and representing data						
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs			Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs			

Examples of what each objective looks like are available on [NCETM's website](http://www.ncetm.org.uk), (National Centre for the excellence of teaching in maths), www.ncetm.org.uk. Click on: *New National Curriculum 2014 blue box – National Curriculum Resource Tool* - select appropriate year group and area – click on *exemplification*.

Suggested Yearly Pacer Year 4

Measurement should be viewed as applied number and calculation. All opportunities to use number in real life contexts should be exploited. Links between fractions, division and multiplication should be made.

Please take all opportunities to draw objectives together rather than teach discretely. The aims of fluency, reasoning and problem solving should be embedded in all teaching.

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 2	Summer 2
Number		Number		Number	
Number and Place Value	Number and Place Value				
Addition and Subtraction	Addition and Subtraction				
Multiplication and Division	Multiplication and Division				
Fractions	Fractions	Fractions	Fractions	Fractions	Fractions
Measurement		Measurement		Measurement	
Time Length Perimeter	Money Capacity	Mass Area Time	Money Volume	Time Length, Mass, Capacity and Volume	Money Perimeter and Area
Geometry/Statistics		Geometry/Statistics		Geometry/Statistics	
Shape	Statistics	Shape	Statistics	Position and Direction	Shape