Year 4

Small Steps Guidance and Examples

Block 1: Place Value



Teaching for Mastery

These overviews are designed to support a mastery approach to teaching and learning and have been designed to support the aims and objectives of the new National Curriculum.

The overviews:

- have number at their heart. A large proportion of time is spent reinforcing number to build competency
- ensure teachers stay in the required key stage and support the ideal of depth before breadth.
- ensure students have the opportunity to stay together as they work through the schemes as a whole group
- provide plenty of opportunities to build reasoning and problem solving elements into the curriculum.

For more guidance on teaching for mastery, visit the NCETM website

https://www.ncetm.org.uk/resources/47230

Concrete - Pictorial - Abstract

We believe that all children, when introduced to a new concept, should have the opportunity to build competency by taking this approach.

Concrete - children should have the opportunity to use concrete objects and manipulatives to help them understand what they are doing.

Pictorial – alongside this children should use pictorial representations. These representations can then be used to help reason and solve problems.

Abstract - both concrete and pictorial representations should support children's understanding of abstract methods.

We have produced a CPD unit for teachers in schools;

https://www.tes.com/teaching-resource/theimportance-of-concrete-professional-development-11476476

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
Antumn		Number – Place Value				Number- Addition and Subtraction			Measurement - Length and Perimeter	Number- Multiplication and Division			Consolidation
Spring	Simp	Number- Multiplication and Division - Area			Fractions				Decimals			Consolidation	
Summer		Decimals Measurement-Money		Time	Stati	istics	Geomet	Geometry-Position and Direction			Consolidation		

Year 4 - Autumn Term

Week 1 Week 2 Week 3 Week 4	Week 5 Week 6 Week 7	Week 8 Week 9 Week 10 Week 11	Week 12
Count in multiples of 6, 7, 9. 25 and 1000. Find 1000 more or less than a given number. Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones) Order and compare numbers beyond 1000 Identify, represent and estimate numbers using different representations. Round any number to the nearest 10, 100 or 1000 Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers. 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.	Number- Addition and Subtraction Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. 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.	Perimeter Measure and calculate the perimeter of a facts for multiplication tables up to 12 × 12. Count in multiples of 6, 7, 9. 25 and 1000	Consolidation

Year 4 - Spring Term

Week 1 Week 2 Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number – multiplication and division Recall and use multiplication and division facts for multiplication tables up to 12 × 12. 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. Recognise and use factor pairs and commutativity in mental calculations. Multiply two digit and three digit numbers by a one digit number using formal written layout. 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.	Area Find the area of rectilinear shapes by counting squares. S C in	equivalent fract Count up and de hundredths aris and dividing ten Solve problems calculate quanti including non-un number.	own in hundre se when dividir nths by ten. involving incre ities, and fract nit fractions w	edths; recognise ing an object by o easingly harder f ions to divide qu where the answer	that one hundred fractions to uantities, r is a whole	any number of Find the effect number by 10 the digits in th hundredths Solve simple r involving fract decimal place: Convert between	write decimal ed f tenths or hundr t of dividing a one or 100, identifyir e answer as ones measure and mor tions and decimals.	e or two digit ng the value of s, tenths and ney problems als to two	Consolidation

Year 4 - Summer Term

Week 1 Week 2	Week 3 Week 4	Week 5		Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Decimals 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 write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths	Measurement- Money Estimate, compare and calculate different measures, including money in pounds and pence. Solve simple measure and money problems involving fractions and decimals to two decimal places.	Time 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.	Statistics Interpret and prediscrete and cont data using apprographical method including bar chatime graphs. Solve comparisor difference proble information presibar charts, pictog tables and other	tinuous priate ds, arts and n, sum and ems using sented in grams,	Identify acute compare and angles by size Compare and including qua on their prop Identify lines presented in Complete a si	roperties of shape and obtuse angle order angles up e. I classify geometridrilaterals and trierties and sizes. of symmetry in 2 different oriental imple symmetric specific line of symmetry specific line symmetry specif	les and to two right ric shapes, riangles, based 2-D shapes tions.	Geometry- Position and Direction Describe positions on a 2-D grid as coordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon. Describe movements between positions as translations of a given unit to the left/ right and up/ down.	Consolidation