Year (5)

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 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
Autumn	Number – Place Value				- Addition otraction	Statistics		Number – Multiplication and Division		Perimeter and Area		Consolidation
Spring	Number – Multiplication and Division				Number – Fractions					Number – Decimals & Percentages		Consolidation
Summer		Number – Decimals			Geometry- Properties of Shapes			Geometry- Position and Direction	Measur Converti	ement- ng Units	Measures Volume	Consolidation

Year 5 - 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
least 1000000 each digit. Count forward: powers of 10 for 1000000. Interpret negation forwards and benegative whole zero. Round any numer problems that Read Roman negative whole problems that	e Value der and compare and determine the s or backwards in or any given num tive numbers in contackwards with pre numbers include the numbers include the proposed of the the proposed of	ne value of steps of ber up to ontext, count ositive and ing through 00 to the nd 100000 actical above. (M) and	Number-Addit Subtraction Add and subtra mentally with i large numbers. Add and subtra numbers with i digits, including written metho addition and su Use rounding t answers to calc determine, in t a problem, leve accuracy. Solve addition subtraction mu problems in co deciding which and methods t why.	act numbers increasingly act whole more than 4 g using formal ds (columnar ubtraction) to check culations and the context of els of and ulti-step intexts, operations	Statistics Solve comparis difference prob information pre line graph. Complete, read information in a including timet	olems using esented in a l and interpret tables	facts. Multiply and dinumbers by 10, Identify multiplication and two numbers. Recognise and numbers and of the notation for cubed (3) Solve problems multiplication a including using of factors and rand cubes. Know and use the prime numbers composite (nor	vide numbers ing upon known vide whole , 100 and 1000. les and factors, ig all factor pairs of common factors of use square ube numbers and ir squared (2) and sinvolving and division their knowledge multiples, squares the vocabulary of is, prime factors and in-prime) numbers. there a number up to ind recall prime	Perimeter and Measure and perimeter of conception of the conception of the area of recommendation of the area of recommendation of the area of the area of irroshapes.	calculate the composite spes in cm compare ctangles ares), and g standard estimate	Consolidation

Year 5 - 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
Multiply and drawing upo Multiply nur or two digit written method multiplication Divide number method of sl remainders context. Solve proble subtraction, and a combi	Initiplication and I divide numbers on known facts. In the series of the digits of the series of the	its by a one formal ing shers. Is by a one of the shers in the shert interpret in the shert in the shert interpret in the shert in the shert interpret in the shert in the shert interpret in the shert	Identify, name attenths and hun Recognise mixe write mathema Add and subtrathe same numb Multiply proper diagrams. Read and write Solve problems	rder fractions when the second write equivalent dredths. If the second is the second is the second dredths with the second dredth dred	mproper fractions of mproper fraction >1 as a mixed nu the same denon ixed numbers by s as fractions [for	a given fraction, as and convert fr imber [for exami ninator and deno whole numbers or example 0.71	of the same numeropresented visitions one form to ple $\frac{2}{\varsigma} + \frac{4}{\varsigma} = \frac{6}{\varsigma} = 1\frac{1}{\varsigma}$ cominators that and s , supported by $n = \frac{71}{100}$] scaling by simple f	ually including the other and .] re multiples of	Number: Decimals Read, write, order numbers with up to places. Recognise and use relate them to ten and decimal equivalents of the near number and to on Solve problems in up to three decimal. Recognise the per and understand the relates to 'number hundred', and write a fraction with deand as a decimal. Solve problems with the solve problems with a fractions with a demultiple of 10 or 2 and 10 or	and compare to three decimal to three decimal this, hundredths alents. The two decimal est whole the decimal place. The two decimal places to the two decimal th	Consolidation

Year 5 - Summer Term

Week 1 Week 2 Week 3 Week 4	Week 5 Week 6 Week 7	Week 8 Week 9 Weel	10 Week 11 Week 12
Number: Decimals Solve problems involving number up to three decimal places. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	Geometry- Properties of Shapes and Angles Identify 3D shapes, including cubes and other cuboids, from 2D representations. Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees (°) Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90°	Measurement-converting Linits Lin	Volume Estimate volume [for example using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] Use all four operations to