Year (2)

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 2 - 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			Nu	Number: Addition and Subtraction					Measurement: Money		Number: Multiplication and Division	
Spring	Number: Multiplication and <u>Division</u>		Stati	stics	Geome	etry: Prope Shape	operties of Nun		Number: Fractions		Measurement: length and height	Consolidation	
Summer	Position and direction		Prob solving effici meth	g and Measurement: Tir			9 (Measurement: Mass, Capacity and Temperature			Investigations		

Year 2 - 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
Number – Place Read and write numerals and ir Recognise the p two digit numbe Identify, repress using different of the number line Compare and of 100; use <, > and Use place value problems. Count in steps of tens from any n backward.	numbers to at n words. blace value of e er (tens, ones) ent and estima representation e. order numbers f ind = signs. e and number fa	ach digit in a te numbers s including from 0 up to acts to solve	Recall and use use related face Add and subtraction two-digit num numbers. Show that the (commutative Solve problem pictorial represented measures methods. Recognise and	act numbers us ns, and mentally ber and tens; to addition of two and subtractions swith addition sentations, incli- ; applying their	ing concrete ob y, including: a to wo two-digit nu- o numbers can be on of one number and subtraction uding those invi- increasing know	to 20 fluently, a jects, pictorial wo-digit number mbers; adding to be done in any of er from another in: using concrete olving numbers, wledge of mental etween additions and solve miss	r and ones; a hree one-digit order cannot. e objects and quantities all and written	combine amor particular valu Find different	d use symbols and pence (p); unts to make a ue. combinations equal the same oney. croblems in a ext involving subtraction of same unit,	recognising od numbers. Calculate math statements for and division win multiplication to them using the (x), division (÷), sign. Solve problems multiplication susing materials repeated addit methods and no division facts, in problems in continuous signs.	multiplication cts for the 2, 5 ables, including d and even ematical multiplication thin the tables and write multiplication and equals (=) s involving and division and division and equals (=) s involving and division and equals (=) multiplication and ncluding ntexts. multiplication of an be done in mutative) and number by

Year 2 - 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
Multiplication and Division Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts. Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data.	Geometry- properties of shape Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid.] Compare and sort common 2-D and 3-D shapes and everyday objects.	Number – fractions Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity. Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	Measurement: ength and height Choose and use appropriate standard units to estimate and measure ength/height in any direction m/cml; mass kg/g : temperature (°C): capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacit y and record the results using >, < and =

WRM - Year 2 - Scheme of Learning 2.0

Year 2 - Summer 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
position, dire including more distinguishing and in terms half and three and anti-clock Order and are	atical vocabular ction and move vement in a stra s between rotat of right angles f e-quarter turns	ment sight line and ion as a turn for quarter, (clockwise	Problem solvi Efficient meth		Measurement Tell and write five minutes, quarter past, and draw the clock face to times. Know the numinutes in an the number of day. Compare and intervals of the summer of the compare and intervals of the summer of the summe	e the time to including /to the hour hands on a show these mber of hour and of hours in a	Choose and use units to estimate length/height mass (kg/g); to using rulers, some assuring versions.	se appropriate late and measu in any directio emperature (°C the nearest app scales, thermon ssels order lengths, city and record	standard re n (m/cm); c); capacity propriate unit, neters and		Investigations