Year (3)

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 3 - 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							r – Multiplication nd Division		Consolidation			
Spring	Number - Multiplication and Division			Measurement: Money	Stati	stics		ement: ler perimeter				Consolidation
Summer	Number – fractions Measurement: Time			Prope	netry – rties of apes	Measurement: Mass and Capacity			Consolidation			

Year 3 - 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 Value Identify, represent and estimate numbers using different representations. Find 10 or 100 more or less than a given number Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1000 Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas. Count from 0 in multiples of 4, 8, 50 and 100	Number – Addition and Subtra Add and subtract numbers me ones; a three-digit number and Add and subtract numbers wit methods of columnar addition Estimate the answer to a calcularswers.	nction Intally, including: a three-digit nur Id tens; a three digit number and h In up to three digits, using formal I and subtraction. Islation and use inverse operations Ising number problems, using num	mber and nundreds. written s to check	Number - Multi Count from 0 in Recall and use r and 8 multiplica Write and calcu multiplication a they know, incl numbers, using methods. Solve problems involving multip integer scaling i	iplication and Div n multiples of 4, 8 multiplication and	d division facts al statements the multiplication tressing to form g number probision, including prespondence p	for the 3, 4 for ation tables les one-digit lal written lems, positive roblems in

Year 3 - 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 the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objectives.	Measuremen t-money Add and subtract amounts of money to give change, using both £ and p in practical contexts.	Statistics Interpret and pusing bar chart and tables. Solve one-step questions [for emany more?' a fewer?'] using presented in socharts and pict tables.	and two-step example, 'How nd 'How many information caled bar	Measure, comp (m/cm/mm); n (l/ml).	- length and peri pare, add and su nass (kg/g); volur erimeter of simp	btract: lengths me/capacity	recognise that from dividing a 10 equal parts one-digit numb quantities by 1	down in tenths; tenths arise an object into and in dividing bers or .0 use fractions as fractions and ons with small d and write liscrete set of actions and ons with small	Consolidation

Year 3 - 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
Number – fractions Recognise and show, using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] Solve problems that involve all of the above.	Measurement – time Tell and write the time from an analogue clock, including using Roman numerals from I to XII and 12-hour and 24-hour clocks. Estimate and read time with increasing accuracy to the nearest minute. Record and compare time in terms of seconds, minutes and hours. Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. Know the number of seconds in a minute and the number of days in each month, year and leap year. Compare durations of events [for example to calculate the time taken by particular events or tasks].	Geometry – properties of shape Recognise angles as a property of shape or a description of a turn. Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. Draw 2-D shapes and make 3-D shapes using modelling materials. Recognise 3-D shapes in different orientations and describe them.	Measurement – mass and capacity Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).	Consolidation