Year 6

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 6 - 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 Number- Addition, Su Value Multiplication and			THE RESERVE OF THE PARTY OF THE		n, Fractions					Consolidation	
Spring	Number- Decimals				1 17 7 7 7 7 7	nber- ebra	Measurement Converting nits and Volume and Volume		Number- Ratio		Consolidation	
Summer	Geometry- Properties of Shapes		Prol	blem solv	ing	Stati	istics		Investigations			Consolidation

Year 6 - 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 Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. Round any whole number to a required degree of accuracy. Use negative numbers in context, and calculate intervals across zero. Solve number and practical problems that involve all of the above.	Number- addition Solve addition and deciding which ope of the context. Divide numbers upersonal written me whole number reactive numbers upersonal written method of the context. Divide numbers upersonal context. Divide numbers upersonal context. Perform mental context. Perform mental context. Identify common upersonal context in the context in division. Use estimation to the context of a personal context of a personal context in the context in the context of a personal context in the context in	d subtraction must be rations and medit number up to a method of long p to 4 digits by a sethod of long diversion of the digits by a factors, fraction alculations, inclusion, inclusions,	this tep problem thods to use and thods to use and digits by a 2-digit whole not ision, and interports, or by rounding and interpreting removed in multiples and profoperations to erations.	s in contexts, d why. Igit number using umber using the ret remainders as ng as appropriate using the formal ainders according operations and orime numbers. carry out ultiplication and and determine in	Compare and of Generate and of fractions) Add and subtramixed number Multiply simple in its simplest for the simple state of	actors to simplifications in press fractions in order fractions, in describe linear in act fractions with s, using the conception of proper form (for example fractions by who could be conception of the example of the	In the same denoted the same denoted in the s	omination. Ins > 1 The es (with a simple a si	Geometry-Position and Direction Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	Consolidation

Year 6 - 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: Decimals Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. Multiply one-digit numbers with up to 2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2 decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy.	Number: Percentages Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison. Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.	Number: Algebra Use simple formulae Generate and describe linear number sequences. Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns. Enumerate possibilities of combinations of two variables.	Measurement Converting Units Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3dp. Convert between miles and kilometres.	Measurement: Perimeter, Area and Volume Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm³, m³ and extending to other units (mm³, km³)	Number: Ratio Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	Consolidation

WRM - Year 6 - Scheme of Learning 2.0

Year 6 - 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
Geometry: Properties of Shapes Draw 2-D shapes using given dimensions and angles. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	Problem Solvi	ing		and know that is twice the ra Interpret and charts and line	ng radius, circumference the diameter dius. construct pie e graphs and olve problems.	Investigations				Consolidation