Year 3 MATHS Subject Map

Number: Place Value Number: Addition and Subtraction Addition and Subtraction Multiplication and Division	Number: Multiplication and Division Measurement: length and perimeter Number: fractions Measurement: mass and capacity	Number: Fractions Measurement: Money Measurement: Time Geometry: Properties of Shape Statistics Consolidation

AGE RELATED EXPECTATIONS

WORKING TOWARDS ARE

1. Partition two-digit numbers into different combinations of tens and ones. This may include using apparatus.
2. Add 2 two digit numbers within 100 and can demonstrate their method using concrete apparatus or pictorial representations.
3. Use estimation to check that their answers to a calculation are reasonable .
4. Subtract mentally a two-digit number from another two- digit number when no regrouping is required.
5. Recognise the inverse relationships between addition and subtraction and use this to check calculations and work out missing number problems.
6. Recall and use multiplication facts for x2,x5,x10,x3 to solve simple problems, demonstrating an understanding of commutativity as necessary.
7. Recall and use division facts for x2,x5,x10,x3 to solve simple problems.
8. Identify 1/3, 1/4, 1/2, 2/4, 3/4 and know that all parts must be equal parts of the whole.
9. Use different coins to make the same amount.
10. Read scales in a practical situation where all numbers on the scale are given in divisions of ones/twos or fives/tens.
11. Read the time on the clock to the nearest 15 minutes.
12. Describe properties of 2D & 3D shapes.

MATHEMATICAL LANGUAGE	ADDITION AND SUBTRACTION	FRACTIONS,DECIMALS AND PERCENTAGES	SHAPE AND GEOMETRY
	19a. Add and subtract numbers mentally, including: a three-digit number and ones, 19b. a three-digit number and tens. 19c. a three-digit number and hundreds 20. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction 21.Estimate the answer to a calculation and use inverse operations to check answers 22. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	26. Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. 27. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. 28.Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators 29. Recognise and show, using diagrams, equivalent fractions with small denominator. 30. Add and subtract fractions with the same denominator within one whole [for example 5/7 + 1/7= 6/7) 31. Compare and order unit fractions, and fractions with the same denominators 32. Solve problems that involve all of the above	40. Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them 41. Recognise angles as a property of shape or a description of a turn 42. 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 43. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

PLACE VALUE	MULTIPLICATION AND DIVISION	MEASUREMENT	DIRECTION AND POSITION
13. Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). 14. Count from 0 in multiples of 4,8,50 and 100. 15. Compare and order numbers up to 1000 16. Identify, represent and estimate numbers using different representations 17. Read and write numbers up to 1000 in numerals and in words 18. Solve number problems and practical problems involving these ideas	23. Recalls and uses multiplication and division facts for 3,4 and 8 x tables. 24. Writes and calculates mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. 25. 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 objects	33. Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). 34. Measure the perimeter of simple 2-D shapes 35. Add and subtract amounts of money to give change, using both £ and p in practical contexts. 36. Tell and write the time from an analogue clock and 12-hour and 24-hour clocks and using Roman numerals. 37. 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 38. Know the number of seconds in a minute and the number of days in each month, year and leap year 39. Compare durations of events [for example to calculate the time taken by particular events or tasks].	

			STATISTICS AND DATA HANDLING
			44a. Interpret and present data using bar charts, pictograms and tables. 44b. Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables.