Year 3 Maths Planning

Area of Maths	Knowledge/Learning Content	
Number and Place Value	• Recognise the place value of each digit in a 3-digit number. • Partition numbers to 100 and 1000. • Read and write numbers up to 1000 in words and numerals. • Compare and order numbers up to 1000. • Identify, represent and estimate numbers using different representations. • Count from 0 in multiples of 4, 8, 50 and 100. • Find 1, 10 and 100 more/less than a given number.	Use and apply place value knowledge across a variety of contexts through: • Word problems • Investigations • Games • Verbal and written reasoning Use correct mathematical language.
Addition and Subtraction	• Add and subtract numbers mentally including: a three-digit number and ones, a three-digit number and tens and a three-digit number and hundreds. • Add and subtract numbers with up to three digits using formal written column methods. • Estimate the answer to a calculation and use the inverse operation to check the answer.	Reason and solve problems which include: • Missing numbers • Recalling and using number facts • One and two-step word problems • Bar method Use correct mathematical language.
Multiplication and Division	• Recall and use multiplication and division facts for the 2, 3, 4, 5, 8 and 10 multiplication tables. • Write and calculate mathematical statements for multiplication and division using the multiplication tables they know. Use mental methods progressing to more formal written methods. • Multiply/divide a 2-digit number by a 1-digit number without and with exchange. • Divide a 2-digit number by a 1-digit number with remainders. • Scaling with times tables.	Reason and solve problems which include: • Multiplication and division word problems • Number families/missing numbers • Scaling Use correct mathematical language.

Fractions	• Count up and down in tenths. • Recognise, find and write fractions of a set of discrete objects. • Recognise and use fractions as numbers. • Recognise and show equivalent fractions using pictures and diagrams. • Add and subtract fractions with the same denominator within one whole. • Compare and order unit, non-unit fractions and fractions with the same denominator.	Reason and solve problems which involve application and knowledge of unit fractions and fractions with the same denominator. Use correct mathematical language.
Measurement	• Measure and compare lengths – mm, cm, m. Find equivalent lengths. • Measure and compare mass – g, kg. Find equivalent weights. • Measure and compare volume/capacity – ml, L. • Measure and calculate the perimeter of simple 2-D shapes. • Convert pence and pounds; add and subtract amounts of money to give change. • Tell and write the time from an analogue clock (12 and 24 hour clocks) including using Roman numerals up to 12. • Estimate and tell the time with increasing accuracy to the nearest minute using the appropriate vocabulary. • Record and compare time in terms of seconds, minutes and hours. • Know the number of seconds in a minute, the number of days in each month, year and leap year.	Reason and solve problems, including word problems which include: • Adding and subtracting length, mass and volume • Using £ and p in practical contexts • Calculate and compare the time taken by particular events • Tell the time accurately Use correct mathematical language.
Geometry: Properties of Shape	• Recognise, describe and draw 2-D shapes. • Recognise 3-D shapes in different orientations and describe them. • Make models of 3-D shapes. • Recognise that angles are a property of shape and a description of a turn. • Identify right angles. Understand that two right angles make a half-turn, three make three-quarters of a turn and four make a complete turn. • Identify whether angles are greater or less than a right angle. • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	Reason and solve problems, including word problems which involve: • Knowing properties of 2 and 3-D shapes. • Recognising angle and lines and reasoning about them. Use correct mathematical language.

Statistics	• Interpret and present data using bar charts, pictograms and tables.	Reason and solve a variety of one and two-step questions using the information presented in scaled bar charts, pictograms and tables. Use correct mathematical language.