Maths Progression

Arithmetic

Head Start

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Counting, Number and Place Value	• Count forwards in ones • Count backwards in ones • Count forwards and backwards in ones • Count forwards in twos • Count backwards in twos • Count forwards and backwards in twos • Count forwards in fives • Count backwards in fives • Count forwards and backwards in fives • Count forwards in tens • Count backwards in tens • Count forwards and backwards in tens • Identify and count forwards in ones, twos, fives and tens • Identify and count backwards in ones, twos, fives and tens • Identify more than a given number • Identify less than a given number	•		• Recognise the place value of each digit in a four-digit number • Identify, represent and estimate numbers using different representations • Count backwards through zero • Order and compare numbers beyond 1000 • Round any number to the nearest 10 • Round any number to the nearest 100 • Round any number to the nearest 1000		

	▪ Identify more and less than a given number					
Addition and Subtraction	▪ Solve mathematical statements involving addition and equals signs ▪ Solve mathematical statements involving subtraction and equals signs ▪ Solve mathematical statements involving addition, subtraction and equals signs ▪ Solve missing number addition and subtraction problems	▪ Recall addition and subtraction facts up to 10 ▪ Recall addition and subtraction facts up to 20 ▪ Recall addition and subtraction facts up to 100 ▪ Add numbers with up to 2 digits and ones ▪ Add numbers with up to 2 digits and tens ▪ Add two 2-digit numbers ▪ Add two 2-digit numbers ▪ Subtract numbers with up to 2 digits and ones ▪ Subtract numbers with up to 2 digits and tens ▪ Subtract two 2-digit numbers ▪ Subtract two 2-digit numbers ▪ Add or subtract two 2-digit numbers ▪ Add or subtract two 2-digit numbers ▪ Recognise and use the inverse relationship between addition and subtraction	▪ Add numbers, mentally ▪ Add numbers with up to 3 digits and ones, mentally ▪ Add numbers with up to 3 digits and tens, mentally ▪ Add numbers with up to 3 digits and hundreds, mentally ▪ Add numbers with 2 digits ▪ Add numbers with up to 3 digits ▪ Subtract numbers, mentally ▪ Subtract numbers with up to 3 digits and ones, mentally ▪ Subtract numbers with up to 3 digits and tens, mentally ▪ Subtract numbers with up to 3 digits and hundreds, mentally ▪ Subtract numbers with 2 digits ▪ Subtract numbers with up to 3 digits	▪ Add numbers with up to 3 digits ▪ Add numbers with up to 4 digits ▪ Subtract numbers with up to 3 digits ▪ Subtract numbers with up to 4 digits ▪ Use inverse operations to solve calculations	▪ Add whole numbers with up to 3 digits ▪ Add whole numbers with up to 4 digits ▪ Add whole numbers with 4 or more digits ▪ Subtract whole numbers with up to 3 digits ▪ Subtract whole numbers with up to 4 digits ▪ Subtract whole numbers with 4 or more digits	▪ Add whole numbers with up to 3 digits ▪ Add whole numbers with up to 4 digits ▪ Add whole numbers with 4 or more digits ▪ Subtract whole numbers with up to 3 digits ▪ Subtract whole numbers with up to 4 digits ▪ Subtract whole numbers with 4 or more digits

			• Solve missing number addition and subtraction problems			
Multiplication and Division	• Solve multiplication problems • Solve division problems • Solve multiplication and division problems • Understand doubling	• Recall and use multiplication and division facts for the 2x table • Recall and use multiplication and division facts for the 5x table • Recall and use multiplication and division facts for the 10x table • Recall and use multiplication and division facts for mixed multiplication tables	• Recall and use multiplication and division facts for the 3-times table • Recall and use multiplication and division facts for the 4-times table • Recall and use multiplication and division facts for the 8-times table • Recall and use multiplication and division facts for mixed multiplication tables • Multiply numbers with 2 digits by a 1-digit number • Divide numbers with 2 digits by a 1-digit number • Solve missing number multiplication and division problems	• Recall and use multiplication and division facts for the 6-times table • Recall and use multiplication and division facts for the 7-times table • Recall and use multiplication and division facts for the 9-times table • Recall and use multiplication and division facts for the 11-times table • Recall and use multiplication and division facts for the 12-times table • Use known facts to multiply and divide, mentally • Multiply numbers with 2 digits by a 1-digit number • Multiply numbers with 3 digits by a 1-digit number • Divide numbers with 2 digits by a 1-digit number • Divide numbers with 3 digits by a 1-digit number	• Multiply whole numbers with up to 3 digits by a 1-digit number • Multiply whole numbers with up to 4 digits by a 1-digit number • Multiply whole numbers with up to 3 digits by a 2-digit number • Multiply whole numbers with up to 4 digits by a 2-digit number • Divide whole numbers with up to 3 digits by a 1-digit number • Divide whole numbers with up to 4 digits by a 1-digit number • Multiply whole numbers and those involving decimals by 10, 100 and 1000 • Divide whole numbers and those involving decimals by 10, 100 and 1000 • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	• Multiply whole numbers with up to 3 digits by a 1-digit number • Multiply whole numbers with up to 4 digits by a 1-digit number • Multiply whole numbers with up to 3 digits by a 2-digit number • Multiply whole numbers with up to 4 digits by a 2-digit number • Divide whole numbers with up to 3 digits by a 1-digit number • Divide whole numbers with up to 4 digits by a 1-digit number

Fractions						
	▪ Find half of a given number ▪ Recognise half of a given number ▪ Find a quarter of a given number ▪ Recognise a quarter of a given number	▪ Find fractions of numbers ▪ Find fractions of numbers ▪ Recognise fractions of numbers ▪ Find and recognise fractions of numbers	▪ Find fractions of numbers ▪ Add fractions with the same denominator ▪ Subtract fractions with the same denominator ▪ Add or subtract fractions with the same denominator ▪ Recognise that tenths arise from dividing numbers by 10	▪ Multiply fractions and mixed numbers by whole numbers ▪ Find fractions of numbers ▪ Find fractions of numbers ▪ Add fractions and mixed numbers with the same denominator ▪ Subtract fractions and mixed numbers with the same denominator ▪ Add or subtract fractions and mixed numbers with the same denominator	▪ Add fractions and mixed numbers with the same denominator ▪ Add fractions and mixed numbers with denominators that are multiples of the same number ▪ Subtract fractions and mixed numbers with the same denominator ▪ Subtract fractions and mixed numbers with denominators that are multiples of the same number ▪ Find fractions of numbers (use as operators) ▪ Multiply fractions and mixed numbers by whole numbers	▪ Add fractions and mixed numbers with the same denominator ▪ Add fractions with different denominators ▪ Add fractions and mixed numbers with different denominators ▪ Subtract fractions and mixed numbers with the same denominator ▪ Subtract fractions and mixed numbers with different denominators ▪ Subtract fractions with different denominators ▪ Multiply fractions and mixed numbers by whole numbers ▪ Multiply pairs of proper fractions ▪ Divide fractions by whole numbers
Decimals					▪ Add decimal numbers with up to 3 decimal places ▪ Subtract decimal numbers with up to 3 decimal places ▪ Add or subtract decimal numbers with up to 3 decimal places	▪ Add decimal numbers with up to 3 decimal places ▪ Subtract decimal numbers with up to 3 decimal places ▪ Multiply whole and decimal

					• numbers by 10, 100 or 1000 • Divide whole and decimal numbers by 10, 100 or 1000 • Multiply or divide whole and decimal numbers by 10s, 100s or 1000s • Multiply whole and decimal numbers by 10, 100 or 1000 • Divide whole and decimal numbers by 10, 100 or 1000 • Multiply or divide whole and decimal numbers by 10s, 100s or 1000s • Multiply 1-digit numbers with up to 2 decimal places by whole numbers • Divide whole and decimal numbers with up to 2 decimal places by a 1-digit whole numbers
Percentage				• Find percentages of whole numbers	• Find percentages of numbers
Order of Operations					• Use knowledge of the order of operations to carry out calculations