Wk	Progression Focus	Weekly Summary	Strands	Objectives
12	**Place value; subtraction** Week 12 focuses on a robust understanding of place value in large numbers, which underpins the subtraction work that follows.	Read and write numbers with up to 7-digits, understanding what each digit represents; work systematically to find out how many numbers round to 5000000; solve subtraction of 5- and 6-digit numbers using written column method (decomposition).	**NPV** Number and place value; **WAS** Written addition and subtraction	• **NPV.76** Read, write, compare and order 7-digit numbers • **NPV.88** Solve number and practical problems that involve square and cube numbers, numbers up to 10 000 000 and rounding any whole number to a required degree of accuracy • **NPV.77** Locate 7-digit numbers on a line and round to nearest million • **WAS.76** Subtract 5- and 6-digit numbers using column subtraction
13	**Multiplication of decimals and fractions** Weeks 13 and 14 focus on understanding decimal and proper fractions and their equivalences; calculations including multiplication of these numbers are rehearsed.	Multiply and divide by 10, 100 and 1000; compare and order numbers with up to three decimal places; know common fraction / decimal equivalents; multiply pairs of unit fractions and multiply unit fractions by non-unit fractions	**DPE** Decimals, percentages and their equivalence to fractions; **FRP** Fractions, ratio and proportion	• **DPE.76** Multiply and divide by 10, 100 and 1000 giving answers up to 3 decimal places • **DPE.75** Identify the value of each digit in numbers given to 3 decimal places • **DPE.79** Convert decimals (up to 3 decimal places) to fractions and vice-versa using 1000ths and 100ths, e.g. 0·382 = 382/1000 • **FRP.85** Use common multiples to express fractions in the same denomination • **FRP.86** Associate a fraction with division and calculate decimal fraction equivalents • **FRP.84** Multiply simple pairs of proper fractions, writing the answer in its simplest form

| 14 | **Multiplication of decimals and fractions** Weeks 13 and 14 focus on understanding decimal and proper fractions and their equivalences; calculations including multiplication of these numbers are rehearsed. | Use partitioning to mentally multiply 2-digit numbers with one decimal place by whole 1-digit numbers; multiply numbers with two decimal places; use short multiplication to multiply amounts of money; use estimation to check answers to calculations; use long multiplication to multiply 3-digit and 4-digit numbers by numbers between 10 and 30. | **MMD** Mental multiplication and division; **WMD** Written multiplication and division; **PRA** Problem solving, reasoning and algebra; **NPV** Number and place value | • **MMD.76** Use partitioning to mentally multiply 2-digit numbers with one decimal place by whole 1-digit numbers, e.g. 4·2 × 6

• **WMD.80** Multiply numbers with 2 decimal places by 1-digit numbers

• **WMD.76** Use short multiplication to multiply money, e.g. £46·29 by 1-digit numbers

• **WMD.79** Use long multiplication to multiply 3- and 4-digit numbers by numbers between 10 and 30

• **PRA.78** Use mathematical reasoning to investigate and solve problems and puzzles, justify their reasoning

• **PRA.81** Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

• **NPV.88** Solve number and practical problems that involve square and cube numbers, numbers up to 10 000 000 and rounding any whole number to a required degree of accuracy |
| 15 | **2D shapes; angles** Week 15 focuses on 2D shapes, particularly quadrilaterals, in relation to their diagonals and interior angles; circles are also taught, along with relevant terminology. | Name, classify and identify properties of quadrilaterals; explore how diagonal lines can bisect quadrilaterals; understand what an angle is and that it is measured in degrees; know what the angles of triangles, quadrilaterals, pentagons, hexagons and octagons add to and use these facts and mathematical reasoning to calculate missing angles; recognise and identify the properties of circles and name their parts; draw circles using pairs of compasses; draw polygons using a ruler and a protractor | **GPS** Geometry: properties of shapes; **PRA** Problem solving, reasoning and algebra | • **GPS.76** Name and classify quadrilaterals according to their properties

• **GPS.77** Begin to know how diagonal lines bisect quadrilaterals

• **GPS.78** Know angle sums for triangles and quadrilaterals and use this fact to calculate missing angles

• **GPS.79** Know angle sums for |

				pentagons, hexagons, octagons and use this fact to calculate missing angles
				• **GPS.80** Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
				• **GPS.81** Draw 2D shapes with ruler, protractor, compass using given dimensions and angles
				• **PRA.78** Use mathematical reasoning to investigate and solve problems and puzzles, justify their reasoning
16	**Addition and subtraction** Week 16 focuses on mental and written addition and subtraction methods, including solving word problems.	Add and subtract numbers using mental strategies; solve addition of 4- to 7-digit numbers using written column addition; identify patterns in the number of steps required to generate palindromic numbers; solve subtraction of 5-, 6- and 7-digit numbers using written column method (decomposition); solve additions and subtractions choosing mental strategies or written procedures as appropriate; read, understand and solve word problems	**MAS** Mental addition and subtraction; **NPV** Number and place value; **WAS** Written addition and subtraction; **PRA** Problem solving, reasoning and algebra	• **MAS.75** Solve additions using appropriate mental strategies
				• **MAS.78** Solve subtractions using appropriate mental strategies
				• **MAS.79** Subtract decimal numbers using appropriate mental strategies
				• **NPV.88** Solve number and practical problems that involve square and cube numbers, numbers up to 10 000 000 and rounding any whole number to a required degree of accuracy
				• **WAS.78** Add large numbers using written column addition (4–7 digits)
				• **WAS.76** Subtract 5- and 6-digit numbers using column subtraction
				• **WAS.79** Subtract large numbers using column subtraction (6–7 digits)
				• **PRA.70** Identify patterns,

17	**Multiplication and division** Week 17 focuses on number patterns involving factors and multiples, and on long division.	Identity common factors and common multiples; understand that a prime number has exactly two factors and find prime numbers less than 100; understand what a composite (non-prime) number is; use long division to divide 3- and 4-digit numbers by 2-digit numbers, giving remainders as a fraction, simplifying where possible	**WMD** Written multiplication and division; **NPV** Number and place value; **PRA** Problem solving, reasoning and algebra	devise and test rules and use them to make predictions
				• **WMD.81** Identify common factors, common multiples and prime numbers
				• **WMD.83** Use short division to divide 4-digit numbers by 1-digit numbers, including those with a remainder
				• **WMD.84** Use long division to divide 3-digit numbers by 'friendly' 2-digit numbers, simplifying fraction remainders
				• **WMD.85** Use long division to divide 4-digit numbers by 'friendly' 2-digit numbers
				• **WMD.87** Use long division to divide 4-digit numbers by 2-digit numbers
				• **NPV.68** Identify all the prime numbers less than 100 using Eratosthenes sieve
				• **PRA.70** Identify patterns, devise and test rules and use them to make predictions
				• **PRA.81** Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy