**Year 5**

| Autumn Term 1 | | |
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| **Wk** | **Strands** | **Weekly Summary** |
| 1 | Number and place value (NPV); Written addition and subtraction (WAS); Problem solving, reasoning and algebra (PRA) | Read, write, compare and order 5-digit numbers, understanding the place value and using < and >signs; add and subtract multiples of 10, 100 and 1000 to and from 5-digit numbers; use written addition to add two 4-digit numbers; sustain a line of enquiry; make and test a hypothesis |
| 2 | Mental addition and subtraction (MAS); Number and place value (NPV) | Add and subtract 2-digit numbers mentally; choose a strategy for solving mental additions or subtractions; solve word problems |
| 3 | Decimals, percentages and their equivalence to fractions (DPE); Problem solving, reasoning and algebra (PRA); Mental multiplication and division (MMD) | Understand place value in decimal numbers; multiply and divide numbers with up to two decimal places by 10 and 100; multiply and divide by 0 and 100; add and subtract 0·1 and 0·01; multiply and divide by 4 by doubling or halving twice; use mental multiplication strategies to multiply by 20, 25 and 9 |
| 4 | Measurement (MEA) | Revise converting 12-hour clock times to 24-hour clock times; find a time a given number of minutes or hours and minutes later; calculate time intervals using 24-hour clock format; measure lengths in mm and convert to cm; find perimeters in cm and convert cm to m |
| 5 | Written addition and subtraction (WAS); Mental addition and subtraction (MAS) | Solve subtraction using a written method for 3-digit − 3-digit numbers and for 4-digit numbers; use counting up (Frog) as a strategy to perform mental subtraction; find change from a multiple of ten pounds using counting up |

| Autumn Term 2 | | |
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| **Wk** | **Strands** | **Weekly Summary** |
| 6 | Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP) | Recognise which numbers are divisible by 2, 3, 4, 5, 6, 9 and 25 and identify multiples; find factors; recording results systematically and finding all factors of a given number; compare and place fractions on a line; find equivalent fractions and reduce them to their simplest form |
| 7 | Mental multiplication and division (MMD); Written multiplication and division (WMD); Problem solving, reasoning and algebra (PRA) | Use mental strategies to multiply and divide multiples of 10 and 100; use a written method to multiply 3-digit and 4-digit numbers by 1-digit numbers and estimate answers, divide 3-digit numbers by 1-digit numbers using a written method and express remainders as a fraction and solve division word problems |
| 8 | Geometry: properties of shapes (GPS); Problem solving, reasoning and algebra (PRA) | Use a protractor to measure and draw angles in degrees; recognise, use terms and classify angles as obtuse, acute and reflex; recognise that angles on a line total 180° and angles round a point total 360°; identify and name parts of a circle including diameter, radius and circumference; draw circles to a given radius using a pair of compasses; relate angles to turns, and recognise that a 360° angle is a complete turn; use angle facts to solve problems related to turn |
| 9 | Number and place value (NPV); Decimals, percentages and their equivalence to fractions (DPE); Fractions, ratio and proportion (FRP) | Place numbers to 100 000 and decimals up to two places on a line, round numbers to the nearest 10, 100 and 1000 and decimals up to two places to the nearest whole number; compare and order numbers with up to two decimal places; reduce fractions to their simplest form; know and recognise equivalent fractions and decimals to half, tenths and fifths |
| 10 | Mental addition and subtraction (MAS); Written addition and subtraction (WAS); Number and place value (NPV); Mental multiplication and division (MMD); Written multiplication and division (WMD); Problem solving, reasoning and algebra (PRA) | Revise mental and written addition and subtraction strategies, choose to use a mental strategy or written method to solve addition and subtraction, choose to solve word problems involving multiplication and division questions including 2- and 3-digit by 1-digit and 2-digit by 2-digit using a mental or a written method, use mathematical reasoning to work out a function, identify the operation being used on numbers, understand that addition and subtraction are inverse operations multiplication and division, use function machines |