

Wk Progression Focus

Weekly Summary

Strands

Objectives

<p>11 Place value; addition and subtraction</p> <p>Week 11 focuses on ensuring a robust understanding of place value and numbers to 10,000, including counting in equal steps; this understanding is then used to underpin mental addition and subtraction.</p>	<p>Place 4-digit numbers on landmarked lines; 0–10 000 and 1000–2000; round 4-digit numbers to the nearest 10, 100 and 1000; mentally add and subtract to/from 4-digit and 3-digit numbers using place-value; count on and back in multiples of 10, 100 and 1000; count on in multiples of 25 and 50; add and subtract multiples of 10 and 100 to/from 4-digit numbers</p>	<p>NPV Number and place value; PRA Problem solving, reasoning and algebra</p>	<ul style="list-style-type: none"> • NPV.45 Understand place value in 4-digit numbers by creating 4-digit numbers, placing them on a number line and solving place value additions and subtractions • NPV.49 Round 4-digit numbers up or down to the nearest 10, 100 or 1000 • NPV.52 Use place value to add and subtract multiples of 10, 100 and 1000 to and from 4-digit numbers • NPV.41 Count on and back in 50s • NPV.43 Count above 1000 in 1s and 100s • NPV.44 Count beyond 1000 in 10s • NPV.50 Count in 1s, 10s and 100s, across multiples of 100 and 1000 • NPV.51 Count in 50s and 25s, using the 100s count • PRA.52 Describe, predict and explain patterns
<p>12 Subtraction; multiplication</p> <p>Week 12 focuses on written calculation methods underpinned by a secure understanding of place value: vertical subtraction and multiplication methods, and multiplication problems involving money.</p>	<p>Use expanded written subtraction and compact written subtraction to subtract pairs of 3-digit numbers (one 'exchange'); use expanded column subtraction and compact column subtraction to subtract pairs of 3-digit and 2-digit numbers from 3-digit numbers (one 'carry'); learn the 7× table and 'tricky' facts; use the vertical algorithm to multiply 3-digit numbers by 1-digit numbers; solve simple money problems with decimals to two decimal places</p>	<p>WAS Written addition and subtraction; MMD Mental multiplication and division; WMD Written multiplication and division; PRA Problem solving, reasoning and algebra; MEA Measurement</p>	<ul style="list-style-type: none"> • WAS.48 Use expanded decomposition to subtract 3-digit from 3-digit numbers • WAS.50 Use compact decomposition to subtract 3-digit from 3-digit numbers • WAS.51 Subtract 2-digit from 3-digit numbers using expanded or compact

13 **Division; fractions**

Week 13 focuses on mental multiplication and division strategies, which underpin the work on proper fractions that follows, including finding non-unit fractions of amounts, equivalent fractions and simplifying.

Use mental multiplication and division strategies; find non-unit fractions of 2-digit and 3-digit numbers; find equivalent fractions and use them to simplify fractions (halves, thirds, quarters)

MMD Mental multiplication and division; **FRP** Fractions, ratio and proportion; **PRA** Problem solving, reasoning and algebra

decomposition

- **MMD.31** Understand that multiplication is commutative and use it in mental calculations
- **MMD.52** Count in 7s and recall multiplication and division facts for the $\times 7$ table
- **WMD.49** Multiply 2- and 3-digit by 1-digit numbers using the ladder method
- **PRA.58** Solve simple measure and money problems involving fractions and decimals up to 2 decimal places
- **MEA.61** Estimate, compare and calculate different measures, including money in pounds and pence
- **MMD.41** Use doubling and halving to multiply and divide by 4 and 8 and solve correspondence problems
- **MMD.49** Double and halve 3-digit numbers by partitioning
- **MMD.55** Use mental strategies to solve multiplications including multiplying by 0 and 1, dividing by 1, multiplying together three numbers
- **MMD.57** Use mental strategies to solve divisions including dividing by 1
- **FRP.38** Find fractions of amounts and relate to division and multiplication
- **FRP.41** Understand unit and non-unit fractions with

14 **2D shapes**

Week 14 focuses on properties of 2D shapes, including angles, parallel and perpendicular lines, and symmetry.

Recognise and compare acute, right and obtuse angles; draw lines of a given length; identify perpendicular and parallel lines; recognise and draw line symmetry in shapes; sort 2D shapes according to their properties; draw shapes with given properties and explain reasoning; draw the other half of symmetrical shapes

GPS Geometry: properties of shapes; **PRA** Problem solving, reasoning and algebra

- denominators ≤ 12
- **FRP.46** Develop an understanding of equivalence in fractions; $1/2$ s, $1/3$ s, $1/4$ s, $1/5$ s, $1/6$ s, $1/8$ s, $1/10$ s
- **FRP.52** Identify the equivalent fraction for any given fraction
- **FRP.34** Begin to understand equivalence by placing fractions on a number line
- **FRP.54** Use equivalence to reduce fractions to their simplest form
- **PRA.58** Solve simple measure and money problems involving fractions and decimals up to 2 decimal places
- **GPS.54** Estimate and measure angles, recognising that they are measured in degrees
- **GPS.56** Compare and classify acute and obtuse angles; order angles up to 180°
- **GPS.43** Draw horizontal, perpendicular and parallel lines of a given length
- **GPS.44** Identify line symmetry in 2D shapes presented in different orientations
- **GPS.49** Classify 2D shapes according to their properties: right angles, lines of symmetry, parallel and perpendicular lines
- **GPS.51** Draw shapes with specified properties: a right

15 **Mental calculation strategies**

Week 15 focuses on the relationship between the operations, particularly multiplication and division, and then between addition and subtraction; these important inverse relationships are linked to mental calculation.

Understand how to divide 2-digit and 3-digit numbers by 1-digit numbers using place value and mental strategies; divide numbers by 1-digit numbers to give answers between 10 and 25, with remainders; identify factor pairs and use these to solve multiplications and divisions with larger numbers; use Frog to find complements to multiples of 1000; use Frog to find change from £10, £20 and £50

MMD Mental multiplication and division; **WMD** Written multiplication and division; **MAS** Mental addition and subtraction; **PRA** Problem solving, reasoning and algebra

angle, two perpendicular lines, two parallel lines

- **GPS.47** Recognise and begin to complete symmetrical 2D shapes
- **GPS.60** Complete a symmetric figure with a given line of symmetry
- **PRA.53** Use, explain and justify mathematical reasoning
- **MMD.37** Understand division as the inverse of multiplication
- **MMD.61** Identify factors and multiples, and begin to find common factors
- **MMD.64** Use knowledge of multiples and factors in relation to large numbers
- **WMD.51** Divide 2- and 3-digit by 1-digit numbers using a written method drawn from mental strategies with integer remainders and answers between 10 and 20
- **MAS.50** Subtract 4-digit from 4-digit multiples of 1000 by counting up
- **MAS.57** Use number facts to add to the next multiple of 100 or 1000
- **MAS.40** Find change from £5, £10 and £20 by counting up
- **MAS.51** Count up to find change from £10, £50 and £100
- **PRA.52** Describe, predict and explain patterns