

## Wk Progression Focus

26 **Addition and subtraction**  
Weeks 25, 26 and 27 focus on mental and written addition and subtraction, including mental strategies, column addition, subtracting by counting up, and choosing appropriate methods to solve problems.

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## Weekly Summary

Use column addition to add three 2- and 3-digit numbers together and four 2- and 3-digit numbers together; subtract 3-digit numbers using counting up; solve word problems choosing an appropriate method

Add 3-digit numbers using column addition; solve problems involving measures; solve subtractions of 3-digit numbers using counting up on a line and work systematically to find possibilities; choose an appropriate strategy to solve addition or subtraction

## Strands

**WAS** Written addition and subtraction;  
**MAS** Mental addition and subtraction

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**MEA** Measurement; **MAS** Mental addition and subtraction; **PRA** Problem solving, reasoning and algebra

## Objectives

- **WAS.44** Use column addition to add three 3-digit numbers with a total < 1000
- **WAS.46** Use column addition to add several 3-digit numbers with a total > 1000
- **MAS.49** Count up to subtract any 3-digit from 3-digit number
- **MAS.28** Add/subtract 2-digit numbers to/from 2-digit numbers by counting on/back
- **MAS.44** Subtract a 3-digit from a 3-digit number (with a difference < 50) by counting up
- **MAS.45** Add mentally 2-digit to 3-digit numbers by partitioning or counting on
- **WAS.44** Use column addition to add three 3-digit numbers with a total < 1000
- **WAS.45** Use column addition to add several 2-digit numbers
- **WAS.46** Use column addition to add several 3-digit numbers with a total > 1000

28 **2D shapes; time**

Week 28 focuses on developing understanding and vocabulary of shape and angle, including measuring perimeters; and on telling the time 5, 10, 20 minutes later using am/pm and 24-hour clock.

Identify, name and draw horizontal, vertical, perpendicular, parallel and diagonal lines, angles and symmetry in 2D shapes; measure the perimeter of 2D shapes by counting and measuring with a ruler; tell the time on analogue and digital clocks to the minute, begin to tell the time 5, 10, 20 minutes later, recognise am and pm and 24-hour clock times

**GPS** Geometry: properties of shapes;  
**MEA** Measurement

- **MEA.42** Measure, compare, add and subtract lengths or heights using m/cm/mm
- **MEA.43** Measure, compare, add and subtract weights (masses) using kg/g
- **MEA.44** Measure, compare, add and subtract capacities or volumes using l/ml
- **MAS.44** Subtract a 3-digit from a 3-digit number (with a difference < 50) by counting up
- **MAS.49** Count up to subtract any 3-digit from 3-digit number
- **MAS.45** Add mentally 2-digit to 3-digit numbers by partitioning or counting on
- **MAS.46** Mentally add two friendly 3-digit numbers
- **PRA.42** Work systematically, using logical reasoning and deduction
- **GPS.31** Draw 2D shapes with specified simple properties, e.g. four straight edges
- **GPS.41** Identify and draw horizontal, vertical, parallel, perpendicular and curved lines
- **GPS.30** Identify right



- angles in 2D shapes
- **GPS.40** Recognise angles as a property of shape and identify right angles and other angles in shapes
- **GPS.42** Identify parallel and perpendicular lines in 2D shapes
- **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
- **MEA.53** Measure the perimeter of simple shapes
- **MEA.41** Begin to say the time ten minutes, or twenty minutes, later or earlier
- **MEA.47** Use vocabulary such as morning, afternoon, noon, and midnight; also am and pm times and 12 hour clocks
- **MEA.54** Write and tell the time to the nearest minute using analogue and digital clocks
- **MEA.40** Tell the time to the nearest five minutes using digital and analogue clocks
- **MEA.55** Use 24 hour clocks

29 **Multiplication and division; fractions**

Week 29 focuses on consolidating written multiplication and division strategies, securing understanding of the relation between division and fractions, and moving to finding tenths of amounts.

Use the grid method to multiply 2-digit numbers by 3, 4, 5, 6 and 8; estimate products; divide using chunking, with and without remainders; decide whether to use multiplication or division to solve word problems; recognise tenths and equivalent fractions; find one-tenth and several tenths of multiples of 10 and begin to find one-tenth of single-digit numbers

**WMD** Written multiplication and division; **PRA** Problem solving, reasoning and algebra; **MMD** Mental multiplication and division; **FRP** Fractions, ratio and proportion; **DPE** Decimals, percentages and their equivalence to fractions

- **WMD.43** Use known tables and place value to multiply 2-digit by 1-digit numbers with the grid method
- **WMD.45** Divide numbers just beyond the tables by subtracting the multiple of 10
- **WMD.46** Divide numbers just beyond the tables, with integer remainders
- **PRA.45** Begin to make generalisations
- **PRA.48** Solve problems involving multiplication and division, including missing number problems
- **MMD.44** Divide mentally numbers just beyond the tables by subtracting the multiple of 10 (no remainders)
- **FRP.34** Begin to understand equivalence by placing fractions on a number line
- **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.37** Find unit fractions of amounts and relate to division
- **FRP.38** Find fractions of amounts and relate

30 **Revision**

Week 30 focuses on rehearsing and consolidating mental and written calculation skills in addition, subtraction, multiplication and division.

Revise column addition for adding three 3-digit numbers; revise mental strategies for addition; subtract 3-digit numbers using written and mental methods; find change using counting up; check subtraction using addition; multiply numbers between 10 and 40 by 1-digit numbers using grid method; solve division problems just beyond the known tables facts

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

to division and multiplication

- **DPE.40** Understand tenths ( $\frac{1}{10}$ s) as fractions and place them on a line
- **MAS.46** Mentally add two friendly 3-digit numbers
- **MAS.48** Add mentally several 1-digit numbers, multiples of 10 or 100
- **MAS.42** Subtract multiples of 10 and 100 from 3-digit numbers
- **MAS.49** Count up to subtract any 3-digit from 3-digit number
- **MAS.40** Find change from £5, £10 and £20 by counting up
- **WAS.44** Use column addition to add three 3-digit numbers with a total < 1000
- **PRA.43** Apply reasoning skills to problems
- **PRA.38** Begin to identify and use patterns to predict answers, and mathematical reasoning to explain them
- **PRA.48** Solve problems involving multiplication and division, including missing number problems



- **WMD.44** Multiply 2-digit by 1-digit numbers using the grid method
- **WMD.46** Divide numbers just beyond the tables, with integer remainders
- **MMD.44** Divide mentally numbers just beyond the tables by subtracting the multiple of 10 (no remainders)