

Wk Progression Focus

16 **Addition and subtraction**
 Weeks 15, 16 and 17 focus on the way a secure understanding of place value underpins rounding, mental addition and subtraction, and column methods of addition.

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Weekly Summary

Understand place-value in 3-digit numbers; separate 3-digit numbers into hundreds, tens, and ones; add two 3-digit numbers using vertical written addition (expanded); add 2- and 3- digit numbers using vertical written addition (expanded)

Add two 2-digit numbers mentally; add 2-digit to 3-digit numbers mentally using place value and rounding; add two 3-digit numbers using expanded written method (answers under 1000); begin to move tens and hundreds moving towards formal written addition; add two 3-digit numbers using expanded column addition; investigate patterns in numbers when adding them; choose to solve addition using a mental method or expanded column addition (written method)

Strands

NPV Number and place value; **PRA** Problem solving, reasoning and algebra; **WAS** Written addition and subtraction

MAS Mental addition and subtraction; **WAS** Written addition and subtraction; **PRA** Problem solving, reasoning and algebra

Objectives

- **NPV.33** Understand place value in 3-digit numbers by creating 3-digit numbers, placing them on a number line and solving place value additions and subtractions
- **NPV.48** Read and write numbers to at least 1000 in numerals and in words
- **PRA.42** Work systematically, using logical reasoning and deduction
- **PRA.45** Begin to make generalisations
- **WAS.41** Use expanded column addition to add pairs of 3-digit numbers
- **WAS.45** Use column addition to add several 2-digit numbers
- **MAS.30** Add pairs of 2-digit numbers using partitioning (totals < 100)
- **MAS.45** Add mentally 2-digit to 3-digit numbers by partitioning or counting on
- **MAS.46** Mentally add two friendly 3-digit numbers
- **WAS.41** Use expanded column addition to add pairs of 3-digit numbers
- **PRA.42** Work systematically, using logical reasoning and deduction
- **PRA.44** Spot patterns and relationships and make

<p>18 Time Week 18 focuses on time-telling on digital and analogue clocks, and the calculation of time intervals; these are used in solving word problems.</p>	<p>Tell the time to the nearest minute on analogue and digital clocks (minutes past and minutes to); time events in minutes and seconds; find a time after a given interval (not crossing the hour); calculate time intervals; solve word problems involving time</p>	<p>MEA Measurement</p>	<p>predictions</p> <ul style="list-style-type: none"> • MEA.51 Recognise Roman numerals on analogue clocks • MEA.54 Write and tell the time to the nearest minute using analogue and digital clocks • MEA.48 Estimate, solve problems and read time with increasing accuracy; record and compare time using seconds, minutes, hours • MEA.49 Know the number of seconds in a minute, minutes in an hour, hours in a day and days in a week • MEA.52 Compare durations of events to calculate the time taken by particular events or tasks
<p>19 Place value; subtraction Week 19 focuses on using number lines to facilitate an understanding of place value in 3-digit numbers, and as an efficient method of performing subtraction involving 3-digit numbers.</p>	<p>Order 3-digit numbers and find numbers between; solve subtractions of 3-digit - 3-digit numbers using counting up (Frog); use counting up and counting back as strategies to perform mental subtractions; choose to solve a given subtraction by counting up or counting back</p>	<p>NPV Number and place value; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra</p>	<ul style="list-style-type: none"> • NPV.34 Order and compare 3-digit numbers and say a number between • MAS.43 Add to the next multiple of 100 by counting up from any 2-digit or 3-digit number • 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.33 Subtract 2-digit from 2-digit numbers by counting up • MAS.37 Subtract by counting up from a 2-digit to a 3-digit number < 200 • MAS.42 Subtract multiples

20 **Multiplication and division**

Week 20 focuses on developing multiplication strategies using doubling and halving and the grid method; division is related to multiplication and this relationship is used to solve missing number problems.

Double and halve numbers up to 100 by partitioning; solve word problems involving doubling and halving; multiply numbers between 10 and 25 by 1-digit numbers using the grid method; divide multiples of 10 by 1-digit numbers using known tables facts; see the relation between multiplication and division

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

- of 10 and 100 from 3-digit numbers
- **PRA.44** Spot patterns and relationships and make predictions
- **MMD.36** Double and halve numbers to 100, including partitioning 2-digit numbers
- **MMD.43** Multiply mentally 2-digit by 1-digit numbers using partitioning
- **MMD.37** Understand division as the inverse of multiplication
- **WMD.43** Use known tables and place value to multiply 2-digit by 1-digit numbers with the grid method
- **WMD.55** Solve problems involving multiplying and adding using the distributive law to multiply 2-digit numbers by 1-digit numbers (partitioning)
- **PRA.48** Solve problems involving multiplication and division, including missing number problems

