

# **Primary Mathematics Planning Framework**

### Medium-term plan: spring term 1st half

Sequence and	Weeks	Page	Learning objectives	Notes/Resources/Teaching Activities
Sequence and Theme 6.6  ADDITIVE REASONING	Weeks 14–16	Page  Planning  Framework  p58	Pupils should be taught to:  Number and place value  use negative numbers in context, and calculate intervals across zero  Addition, subtraction, multiplication and division  perform mental calculations, including with mixed operations and large numbers  use their knowledge of the order of operations to carry out calculations involving the four operations  solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why  solve problems involving addition, subtraction  use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy  Fractions (including decimals and percentages)  solve problems which require answers to be rounded to specified degrees of accuracy  Algebra  use simple formulae  generate and describe linear number sequences  express missing number problems algebraically  find pairs of numbers that satisfy an equation with two	Notes/Resources/Teaching Activities
ASSESSMENT TASK		Assessment Tasks	wnknowns     enumerate possibilities of combinations of two variables  Measurement     solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate     use, read, write and convert between standard units, converting measurements of length, mass and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to three decimal places  Statistics     interpret and construct pie charts and line graphs and use these to solve problems.  Success criteria Pupils can solve addition and subtraction problems in	TASK: Canadian Capacity USE WITH: Groups of 3
6.6		Years 5 and 6 pp46–47	Pupils can solve addition and subtraction problems in different contexts, appropriately choosing and using number facts, understanding of place value and mental and written methods. They can explain their decision making and justify their solution and level of accuracy.	USE WITH: Groups of 3

### Medium-term plan: spring term 1st half (cont.)

Sequence and Theme	Weeks	Page	Learning objectives Pupils should be taught to:	Notes/Resources/Teaching Activities
6.7 NUMBER SENSE	17–18	Planning Framework p59	Fractions (including decimals and percentages)  use common factors to simplify fractions: use common multiples to express fractions in the same denomination compare and order fractions. including fractions >1  associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/4]  recall and use equivalences between simple fractions, decimals and percentages, including in different context identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places	
			Algebra     use simple formulae     generate and describe linear number sequences     express missing number problems algebraically     find pairs of numbers that satisfy an equation with two unknowns	
			Measurement  solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate  use, read, write and convert between standard units, converting measurements of length, mass and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to three decimal places  Statistics  interpret and construct pie charts and line graphs and use these to solve problems.	
ASSESSMENT TASK 6.7		Assessment Tasks Years 5 and 6 pp48–49	Success criteria Pupils can represent and explain the relationship between decimals, fractions and percentages and equivalences within fractions. They use this understanding to solve problems.	TASK: Fishy Fractions USE WITH: Groups of 3



## **Primary Mathematics Planning Framework**

### Medium-term plan: spring term 2nd half

Sequence and	Weeks Page	Learning objectives	Notes/Resources/Teaching Activities
Theme		Pupils should be taught to:	
-	19-21 Planning Framework p60		



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ASSESSMENT TASK 6.8	Ye	ssessment Tasks ears 5 and 6 pp50–51	Success criteria  Pupils can explain the relationship between multiplication, division, ratio and proportion. They use this understanding to derive facts and solve problems.	TASK: Food Factors USE WITH: Groups of 3
			and an accounting to account the total and converged problemos	

### Medium-term plan: spring term 2nd half (cont.)

Sequence and	Weeks	Page	Learning objectives	Notes/Resources/Teaching Activities
Theme			Pupils should be taught to:	
6.9 GEOMETRIC REASONING	22–23	Planning Framework p61	Geometry: properties of shapes  draw 2-D shapes using given dimensions and angles  recognise, describe and build simple 3-D shapes, including making nets  compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons  illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	
			Geometry: position and direction  describe positions on the full coordinate grid (all four quadrants)  draw and translate simple shapes on the coordinate plane, and reflect them in the axes	
			Algebra  use simple formulae  express missing number problems algebraically  find pairs of numbers that satisfy an equation with two unknowns  enumerate possibilities of combinations of two variables	
			Measurement  calculate the area of parallelograms and triangles recognise when it is possible to use the formulae for area and volume of shapes calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimeters (cm³) and cubic metres (m³) and extending to other units, [for example, mm³ and km³]  Ratio and proportion  Solve problems involving similar shapes where the scale	
ASSESSMENT TASK 6.9		Assessment Tasks Years 5 and 6	factor is known or can be found.  Success criteria Pupils can explain how to reflect and translate shapes on a	TASK: Shape Shifting USE WITH: Groups of 3
0.9		pp52–53	grid with four quadrants and use this knowledge and understanding to solve problems. They can explain how to find the volume of cubes and cuboids and use this understanding to solve problems.	

### Medium-term plan: spring term 2nd half (cont.)

Sequence and	Weeks	Page	Learning objectives	Notes/Resources/Teaching Activities
Theme 6.10  NUMBER SENSE	24–25	Planning Framework p62	Pupils should be taught to:  Number and place value  read, write, order and compare numbers up to 10 000 000 and determine the value of each digit  round any whole number to a required degree of accuracy  use negative numbers in context, and calculate intervals across zero  solve number problems and practical problems that involve all of the above  Fractions (including decimals and percentages)  use common factors to simplify fractions; use common multiples to express fractions in the same denomination  compare and order fractions, including fractions >1  identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places  Measurement  use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation up to three decimal places  convert between miles and kilometres.	
ASSESSMENT TASK 6.10		Assessment Tasks Years 5 and 6 pp54–55	Success criteria Pupils can use their understanding of the multiplicative nature of the number system to convert between different units of measures, knowing when it is appropriate to use their understanding of how to multiply and divide by 10, 100 and 1000. Pupils make appropriate decisions about when to use their understanding of counting, place value and rounding for solving problems including adding and subtracting.	TASK: London to Paris USE WITH: Groups of 3