

COATHAM CE PRIMARY SCHOOL MATHEMATICS

YEAR 5	Strands	Progression Focus	Weekly Summary
SUMMER 1	MAS Mental addition and subtraction. DPE Decimals, percentages and their equivalence to fractions PRA Problem solving, reasoning and algebra	Addition and subtraction Focus on adding and subtracting numbers in the context of money and contextual problems	Add mentally 2-place decimal numbers in the context of money using rounding; add several small amounts of money using mental methods; mentally subtract amounts of money including giving change; calculate the difference between two amounts using counting up; solve word problems; including 2-step problems, choosing an appropriate method.
2	FRP Fractions, ratio and proportion PRA Problem solving, reasoning and algebra WMD Written multiplication and division	Fractions; Multiplication Focus on multiplying and converting fractions; and on short- and long-term multiplication of whole numbers	Multiply fractions less than 1 by whole numbers, convert improper fractions to whole numbers; use short multiplication to multiply 3-digit and 4-digit numbers by 1-digit numbers; use long multiplication to multiply 2-digit and 3-digit numbers by teens numbers
3	DPE Decimals, percentages and their equivalence to fractions PRA Problem solving, reasoning and algebra	Place value and decimals Focuses on place value in decimals, including multiplying and dividing by 10 and 100	Read, write and compare decimals to three decimal places, understanding that the third decimal place represents thousandths; multiply and divide numbers by 10, 100 and 1000 using 3-place decimal numbers in the calculations; place 2-place decimals on a number line and round them to the nearest tenth and whole number.
4	NPV Number and Place Value	Focus on place value to 3-decimal places	Read, write, order and compare 3-place decimal numbers; understand and use negative numbers in the context of temperature.
5	GPD Geometry; position and direction PRA Problem solving, reasoning and algebra GPS Geometry; properties of shapes	Coordinate geometry; 2D and 3D shapes Focuses on plotting, reflecting and translating shapes on coordinate grids; and on extending understanding of properties of 2D and 3D shapes.	Read and mark co-ordinates in the first two quadrants; draw simple polygons using co-ordinates; translate simple polygons by adding to and subtracting from the co-ordinates; reflect simple shapes in the y axis or in a line, noting the effect in the co-ordinate; translate simple shapes and note what happens to the co-ordinates; draw regular and irregular 2D shapes using given dimensions and angles; use the properties of 2D shapes, including rectangles, to derive related facts; identify 3D shapes from 2D representations; create 3D shapes using 2D nets and draw 3D shapes.
6	WAS Written addition and subtraction PRA Problem solving, reasoning and algebra	Addition and subtraction	Add 5-digit numbers using written column addition; subtract 5-digit numbers using written method (decomposition); check answers to subtractions using

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		Focuses on written methods of addition and subtraction, and choosing efficient strategies to solve problems.	written column addition; solve subtractions of 4- and 5-digit numbers using written column subtraction or number line counting up.
Assessment Week			

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SUMMER 2			
1	MMD Mental multiplication and division PRA Problem solving, reasoning and algebra FRP Fractions, ratio and proportion	Multiplication and division and fractions Focus on factors and multiples; on securing the concept of equivalent fractions to enable calculations with fractions; and on further developing written methods of multiplication and division.	Identify factors and multiples; find factor pairs; revise equivalent fractions; compare and order fractions with related denominators; add fractions with same or related denominators, then convert answer into a mixed number; subtract fractions with same and related denominators, revise multiplying fractions by whole numbers.
2	WMD Written multiplication and division	Multiplication and division and fractions Focus on factors and multiples; on securing the concept of equivalent fractions to enable calculations with fractions	Use short division to divide 3-digit numbers by 1-digit numbers and 4-digit numbers by 1-digit numbers, including those which leave a remainder; express a remainder as a fraction
3	WMD Written multiplication and division	Further develop written methods of multiplication and division	Use long multiplication to multiply 3-digit and 4-digit numbers by teens numbers.
4	DPE Decimals, percentages and their equivalence to fractions FRP Fractions, ratio and proportion NPV Number and Place Value	Fractions, decimals and percentages Focus on understanding percentages and how they relate to fractions and decimals and solving problems by finding percentages of amounts.	Understand what percentages are, relating them to hundredths; know key equivalences between percentages and fractions, finding percentages of amounts of money; find equivalent fractions, decimals and percentages; solve problems involving fraction and percentage equivalents; write dates using Roman numerals.
5	NPV Number and Place Value STA Statistics MEA Measurement PRA Problem solving, reasoning and algebra	Revision Focuses on revision of line graphs and calculating time intervals	Find cubes of numbers to 10; draw and interpret line graphs showing change in temperature over time; begin to understand rate; use timetables using the 24-hour clock and use counting up to find time intervals of several hours and minutes; solve problems involving scaling
6	WMD Written multiplication and division PRA Problem solving, reasoning and algebra MMD Mental multiplication and division	Finding cubes of numbers; using factors to multiply; and solving scaling problems involving fractions and measures.	Fractions; use factors to multiply; solve scaling problems involving measure.
Two Assessment Weeks			