

WESTMINSTER CATHEDRAL CHOIR SCHOOL MATHS DEPARTMENT YEAR PLAN 2010/11

Year Group	Michaelmas Term	Lent Term	Trinity Term
3			
4	Place value Addition & subtraction Word problems Basic geometry Fractions	Decimal arithmetic and the four operations Triangles and area Volume and metric units Size and order of number	Further decimal arithmetic Fractions Part 2 Percentages Conversion between fractions, percentages and decimals Area, perimeter and nets Probability
5	Topics. Arithmetic. Addition, subtraction, multiplication, division. Fractions Images, cancelling, word problems. Geometric drawing x 3 Beehive, Jewel, Compass. Names of Polygons. Drawing polygons. Triangles. Degrees, names of angles, equal angles. 3 tests 1 end of term exam Book 51	Topics Arithmetic. Multiplication and division by a decimal. Cancelling fractions, word problems with fractions, fraction problems. Bodmas Patterns in number, and in images. Coordinates 2 tests 1 Exam Book 52	Topics. Arithmetic. Division by a decimal. Multiples of 10. Fractions. Vulgar and problems. Percentage. Meaning of %, conversion of % to decimal. Area and perimeter. Area of triangle. Volume. Cubes, and problems. Metric measurement, time, distance, time, litres. 24 hour clock, seconds and conversion. 3 tests.

			I Exam Book 53
6	<p>Arithmetic and decimals, long multiplication, decimal multiplication. Arithmetic problems, Bodmas, negative numbers. Fractions, images, and cancelling vulgar fractions. % to decimal to % to fraction. Order of number, $\frac{1}{n}$ of a number. Coordinates, names of lines, reflection in lines, translation. Lines of symmetry. Range and mode and median. Books 61 and 61s.</p>	<p>Division by a decimal. Word problems. Prime numbers and squares. Speed, distance and time. Probability. Pie charts. Geometric construction. Books 62 and 62s</p>	<p>Arithmetic, with fractions. Percentage, increase and decrease. sig. figs, ratio. nets and volume of 3D shapes. Conversion of capacity units. Algebra. Collecting like terms, operations, substitution. 3 tests, 1 exam. Books 63 and 63s.</p>
7	<p>Arithmetic, and 'given that' problems. Algebra substitution, expansion of brackets. Factorisation, and equations. 'Think of a number'. N^{th} term, and pattern. Construction, and bearings $\times 2$. 3 tests, 1 exam. Books 71 and 71s</p>	<p>Approximation. Square roots. Primes. % profit and loss. Ratio and proportion. Algebra equations. Equation of lines. Enlargement and single transformation. 2 tests, 1 exam. Books 72 and 72s.</p>	<p>Arithmetic, Bodmas and fractions and %. Algebraic inequalities, curved graphs, and intersection. Polygons, interior and exterior angles. Circles circumference and area. Proportion. Probability. 3 tests, 1 exam. Books 73 and 73s.</p>

8	<p>9 topics. Arithmetic. Calculators. Trial and improvement, Intersection of lines. Simultaneous equations. Pythagoras. Further algebra. Conversion graphs. Speed and time. 3 tests, 1 exam. Books 81 and 81s.</p>	<p>3 / 4 topics, consolidation and revision. Pattern and prediction, Volume of prisms, data. Exam practice x 3. 2 tests, 1 exam. Books 82 and 82s.</p>	<p>Exam practice. CE takes place in 3 /4th week.</p>
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These plans are supplemented by a system of exercise books written specifically for them.

The books are titled by year and term, so that the book for year 5 term 1 is titled '51', and year 8 term 2 is titled '82', and so on.

The topics are taught linearly, and the termly plans detail all the exercises and preps each boy is to do in a term.

Differentiation occurs within the books, as all the exercises are subdivided into three levels. Boys are asked to work within these levels, and encouraged to reach a higher level within the context of their ability.

One prep is set every week, each of 30 – 60 minutes duration. Boys following the scholarship programme will be set an additional prep.

Three tests per term are set before week 11, in which the boys will do mocks.

Scholarship boys follow an additional scheme of work, and the work is done in separate scholarship classes.