



Maths topic covered	Teaching Sequence	Objectives covered
		measure these <ul style="list-style-type: none"> • Draw angles, using a protractor, on their own and in shapes • Calculate angles in a triangle or around a point
Revision: Data-handling Revision: Multiplication and division	TS5 TS6	<ul style="list-style-type: none"> • Solve problems by collecting, selecting, processing, presenting and interpreting data, using ICT where appropriate; draw conclusions and identify further questions to ask • Construct and interpret frequency tables, bar charts with grouped discrete data, and line graphs • Interpret pie charts • Multiply three- and two-digit numbers by two- and single-digit numbers including decimals using mental, written or calculator methods (Au TS2 and 3, Sp TS3 and 4) • Divide three- and two-digit numbers by two- and single-digit numbers including decimals using mental, written or calculator methods (Au TS2 and 3, Sp TS3 and 4) • Choose mental, written or calculator methods to multiply or divide numbers (see Au TS7 and Sp TS8) • Solve word problems involving all four operations (Au TS8 and Sp TS9)
Addition and subtraction Reasoning and explaining Place value, squares and factors	TS7/7a TS8	<ul style="list-style-type: none"> • Find a difference between two numbers with different numbers of decimal places, e.g. $55.24 - 23.7$, $39.4 - 15.78$ • Use vertical addition to add three numbers with different numbers of digits or decimals with one or two places • Make and justify estimates and approximations of large numbers e.g. how many pennies might be in a line 1km long • Explain methods and reasoning orally • Recognise squares of all numbers to at least 12×12 • Square multiples of ten, e.g. 50×50 • Use the square root key on the calculator • Find factors of two-digit numbers (Y6 Au TS6)
Multiplication and division	TS9	<ul style="list-style-type: none"> • Use factors to multiply e.g. multiply by 8 by multiplying by 4 then doubling • Use number facts to generate new multiplication facts, e.g. develop the $24 \times$ table by multiplying the $6 \times$ table by 4 • Develop the $17 \times$ table by adding the 10 and $7 \times$ tables • Multiply by halving one number and doubling the other, e.g. calculate 35×16, by calculating 70×8



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		<ul style="list-style-type: none"> • Approximate first before calculating • Revise using knowledge of place value and multiplication facts to multiply and divide appropriate calculations • Multiply by near multiples of ten by multiplying by the nearest multiple of ten and adjusting, e.g. multiply by 19 or 21 by multiplying by 20 and adjusting • Use the grid method to multiply three-digit numbers including numbers with one or two decimal places, by single digit numbers, e.g. 4.92×3 • Give an answer to a division as a mixed number, e.g. $90 \div 7 = 12 \frac{6}{7}$ • Give an answer to a division as a decimal fraction where the divisor is 2, 4, 5, 10 or 100, e.g. $61 \div 4 = 15.25$ • Use chunking to divide a three-digit sum of money in pounds by a one- or two-digit number, first converting the pounds to pence, e.g. $\pounds 6.00 \div 24$ is $600p \div 24$ or $\pounds 1.26 \div 7$ is $126 \div 7$
Using a calculator	TS10	<ul style="list-style-type: none"> • Begin to use the memory (M+, M- and MR) keys
Problem solving	TS11	<ul style="list-style-type: none"> • Solve logic problems • Solve visual puzzles • Solve mathematical puzzles • Explain methods and reasoning orally
Measuring ourselves and what's around us	TS12	<ul style="list-style-type: none"> • Use and compare decimal numbers with more than two decimal places in the context of measures • Make and justify estimates and approximations of large numbers • Explain methods and reasoning orally • Make general statements about patterns and relationships • Begin to find the mean of a set of data • Construct and interpret line graphs
Stories and games	TS13	<ul style="list-style-type: none"> • Make and justify estimates and approximations of large numbers • Explain methods and reasoning orally • Make general statements about patterns and relationships • Solve mathematical puzzles
History of maths	TS14	<ul style="list-style-type: none"> • Make general statements about patterns and relationships • Approximate first when calculating • Recognise and extend number sequences such as the sequence of square or triangular numbers • Use the decimal point when using a calculator



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		<ul style="list-style-type: none"> • Describe a relationship in words, and then express it in a formula using letters as symbols • Draw lines to nearest centimetre and millimetre
Maths in art and nature	TS15	<ul style="list-style-type: none"> • Tessellate 2D shapes • Visualise and draw on grids of different types where a shape will be after reflection, after translation, or after rotation through 90° or 180° about its centre or one of its vertices • Use the decimal point when using a calculator • Make general statements about patterns and relationships • Express a larger whole number as a fraction of a smaller one