

Ratio, Proportion and Algebra Progression

Year group	Objectives
Year 1	Algebra <ul style="list-style-type: none"> • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \underline{\quad} - 9$ • represent and use number bonds and related subtraction facts within 20 • sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening
Year 2	Algebra <ul style="list-style-type: none"> • recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems • recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 • compare and sequence intervals of time • order and arrange combinations of mathematical objects in patterns
Year 3	Algebra <ul style="list-style-type: none"> • solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction • solve problems, including missing number problems, involving multiplication and division, including integer scaling
Year 4	
Year 5	
Year 6	Algebra <ul style="list-style-type: none"> • 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 • enumerate possibilities of combinations of two variables Ratio and Proportion <ul style="list-style-type: none"> • solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts • solve problems involving the calculation/use of percentages for comparison • solve problems involving similar shapes where the scale factor is known or can be found

	<ul style="list-style-type: none">• solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
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