Mathematics Programme of Study – Statistics, Ratio, Proportion, Algebra

	Statistics	Ratio and Proportion	Algebra
Year 1			
Year 2	interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and comparing categorical data		
Year 3	interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables		
Year 4	interpret and *present discrete and continuous data using appropriate graphical methods,* including bar charts *and time graphs* solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs		

	Statistics	**Ratio and Proportion**	**Algebra**
Year 5	solve comparison, sum and difference problems using information presented in a line graph complete, read and interpret information in tables, including timetables.		
Year 6	interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average.	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 of percentages (e.g. of measures) such as 15% of 360 and the use of percentages for comparison solve problems involving similar shapes where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	express missing number problems algebraically use simple formulae expressed in words generate and describe linear number sequences find pairs of numbers that satisfy number sentences involving two unknowns enumerate all possibilities of combinations of two variables.