Knowledge Progression in Statistics

Record, Present and Interpret Data		
Three and Four-Year-Olds	Mathematics	• Experiment with their own symbols and marks, as well as numerals.

Year Group	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Interpreting data		•Interpret and construct simple pictograms, tally charts, block diagrams and simple tables	•Interpret and present data using bar charts, pictograms and tables •To be able to select own simple scale	•Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and line graphs	•Complete, read and interpret information in tables, including timetables Construct line graphs	•Interpret and construct pie charts, line graphs and calculate and interpret the mean, as an average To be able to interpret conversion graphs (Use for measures)
Extracting info from data		•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 To be able read and compare data using many –to-one correspondence in pictograms with simple ratios 2,5,10	•Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables •To be able to read simple scales on pictograms, including pictures represented as ¼ and 1/2	•Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	•Solve comparison, sum and difference problems using information presented in a line graph	•Use pie charts and line graphs to solve problems To be able to interpret scatter graphs (focus through Science)

Key Vocabulary		Count, tally, sort, vote, graph, block graph, pictogram, represent, group, set, list, table, label, title, most popular, most common, least popular, least common	Carroll diagram Chart, bar chart, frequency table, , Venn diagram, axis, x axis, y axis	Continuous data, line graph	Missing value, constant rate, two- way table	Scatter graph, conversion graph, Mean, mode, median, pie chart, construct