Statistics

Record, Present and interpret Data

| Three and <br> Four-Year- <br> Olds | Mathematics | • Experiment with their own symbols and marks, as well as numerals. |
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| Year Group | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| Interpreting data |  | - Interpret and construct simple pictograms, tally charts, block diagrams and simple tables | - Interpret and present data using bar charts, pictograms and tables <br> -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 <br> -Solve simple problems involving direct proportion by scaling quantities up or down <br> - To begin to calculate and interpret the mean, mode and median as an average | - Interpret and construct pie charts, line graphs and conversion graphs |
| Extracting info from data |  | - Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity <br> -Ask and answer | - 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 | -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 <br> -To be able to interpret information in a pie chart | - Use pie charts and line graphs to solve problems <br> - Solve simple problems involving direct proportion by scaling quantities up or down |


|  |  | questions about <br> totalling and <br> comparing <br> categorical data <br> To be able read and <br> compare data using <br> many -to-one <br> correspondence in <br> pictograms with <br> simple ratios 2,5,10 | $\bullet$ To be able to read <br> simple scales on <br> pictograms, including <br> pictures represented <br> as $1 / 4$ and $1 / 2$ |  |  |
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| New vocabulary for each <br> year group is in bold | Progression in vocabulary - statistics |
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| EYFS |  |
| Year 1 | Year 2 |
| Year 3 | count, tally, sort, vote graph, block graph, pictogram represent group, set list, table label, title most popular, most common least popular, <br> least common, |
| Year 4 | count, tally, sort, vote graph, block graph, pictogram represent group, set list, table, chart, bar chart, frequency table ,Carroll diagram, Venn <br> diagram ,label, title, axis, axes, diagram, most popular, most common least popular, least common |
| Year 5 | count, tally, sort, vote, survey, questionnaire, data, graph, block graph, pictogram, line graph represent, group, set list, table, chart, bar <br> chart, frequency table Carroll diagram, Venn diagram label, title, axis, axes diagram most popular, most common least popular, least <br> common |
| Year 6 | count, tally, sort, vote survey, questionnaire, data, database ,graph, block graph, pictogram represent group, set list, table, chart, bar chart, <br> frequency table, Carroll diagram, Venn diagram, line graph, label, title, axis, axes diagram most popular, most common least popular, least <br> common maximum/minimum value, outcome mean, mode, median, range |
|  | count, tally, sort, vote survey, questionnaire, data, database graph, block graph, pictogram represent group, set, list, table, chart, bar chart, <br> frequency table, Carroll diagram, Venn diagram, line graph, pie chart, conversion graph, scatter graph, label, title, axis, axes, diagram ,most <br> popular, most common least popular, least common maximum/minimum value, outcome, mean, mode, median, range, statistics, <br> distribution |

