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| Know  1  Individual skills | | |  | Integration | | Apply  2  Understand principles | |
| Skills | | | | Strategy | |  | |
| K2  K1 | Decide the type of chart or graph to draw based on its purpose or type of data  Design a table for data being gathered. | K8 | | | Select a good way to display data | A1 | Explain why different kinds of data are better displayed on different kinds of graphs  Explain the choice of starting point for axes, zero or non-zero |
| A2 |
|  |  |  | | |  | A3 | Explain the choice of a straight line or curve of best fit |
| K7  K6  K4  K5  K3 | Label the x axis with the name of the independent variable and the y axis with the dependent variable  Write unit labels on the axes  Decide which numbers to start and finish with on each axis  Mark out an equal scale showing what each square of graph paper represents  Draw a straight line or a curve of best fit through the points | K9 | | | Draw line graphs to display relationships |  |
| A4 | Explain the choice of type of graph |
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| A5 |  |
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| Key words | |  | | |  |  |  |
| K12  K11  K10 | **Continuous variable** Has values that can be any number  **Discontinuous variable** Has values that are words or discrete numbers  **Bar chart/column graph** Displays the values of categories | K15  K14  K13 | | | **Line graph** Shows the relationship between two continuous variable  **Pie chart** Shows the proportions or percentages that make up a whole  **Line of best fit** A straight or curved line drawn to show the pattern of data points | K16 | **Scatter graph** Showsthe independent variable vs dependent variable |