## Handling Data: Maths : Year 4 : Summer Term, week 9

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| **Lesson 1**       | To solve problems using information presented in a variety of tables and graphs. | • Can children read data in graphs, including stacked bar charts, with a variety of scales?  
• Can children use mental methods to solve problems about data in graphs?  
• Can children, using appropriate vocabulary, devise their own questions about data in graphs? | Slides  
Graphs 1A–1F  
Question Cards 1A–1C  
Quiz 1 sheet (FSD…? activity only)  
Answers 1 sheet (FSD…? activity only) |
| **Lesson 2**       | To plan and conduct surveys, collecting data which may be presented and interpreted using graphs. | • Can children identify features of effective, useful survey questions?  
• Can children suggest questions where having ‘nothing’ or ‘other’ answer choices would be appropriate?  
• Can children devise survey questions and collect/compile survey data? | Slides  
Example Uniform Questions  
Worksheets 2A–2C  
Survey Ideas cards (FSD…? activity only) |
| **Lesson 3**       | To present discrete data accurately in graphs, using appropriate scales. | • Can children identify common mistakes, or misleading design choices, made when creating bar charts?  
• Can children identify features of accurate, helpful bar charts?  
• Can children select appropriate scales when drawing bar charts on squared/graph paper? | Slides  
Survey 3 sheet  
0.5 cm squared paper and 2 mm graph paper  
Visual Data 3 sheet (FSD…? activity only)  
Bar Chart Data 3 cards |
| **Lesson 4**       | To present sets of data with high/large values using bar charts with appropriate scales. | • Can children identify common, easily made mistakes when plotting data on graphs?  
• Can children select and use appropriate scales when plotting data with high/large values on bar charts?  
• Can children estimate where to draw the tops of bars when their values do not exactly align with gridlines? | Slides  
Worksheets 4A–4C  
1cm squared paper, 0.5 cm squared paper and 2 mm graph paper  
Big Number Data 4 (FSD…? activity only)  
Spreadsheet software (FSD…? activity only) |
| **Lesson 5**       | To present discrete data showing changes over time using time graphs. | • Can children suggest reasons why line graphs are appropriate for showing data with changes over time?  
• Can children select and use appropriate scales for line graphs showing time data?  
• Can children draw, read and interpret time graphs? | Slides  
Worksheets 5A–5C  
0.5 cm squared paper and 2 mm graph paper  
Sticky notes  
Time Activities 5 (FSD…? activity only)  
Thermometers, tape measures, metre rules (FSD…? activity only)  
Spreadsheet software (optional, FSD…? activity only) |

NB: ‘FSD? activity only’ refers to the alternative ‘Fancy Something Different…?’ activity within the lesson plan.