Organising Data : Maths : Year 3 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To interpret data using bar charts.	Children will recap familiar ways of presenting data, such as straightforward tables, pictograms and block diagrams. Moving on, the slides show the features of bar charts and how data can be presented in them. The activities encourage children to start using bar charts as well as using mathematical vocabulary to describe them.	• Are children confident interpreting data presented in tables, tally charts, pictograms and block diagrams? • Can children identify the features of bar charts? • Can children read and interpret information presented in bar charts?	• Slides • Worksheets 1A/1B/1C/1D • Maths Vocabulary Cards • Unifix/multilink cubes (FSD? activity only)
Lesson 2	To present data using bar charts.	As a warm-up, children are challenged to think about the features of bar charts. The main focus concerns presenting data collected in tables and tally charts. Children will explore ways of ensuring bar charts are drawn accurately, going on to think about how data in tables can be checked using bar charts and vice-versa. Children are challenged to make accurate bar charts using the provided sets of data.	• Can children compare data presented in tables and bar charts? • Can children generate instructions for drawing a bar chart? • Can children present given sets of data in a bar chart?	• Slides • Worksheets 2A/2B/2C/2D • Maths Vocabulary Cards (FSD? activity only) • Large sheets of plain paper (FSD? activity only) • Maths cubes, plastic building blocks, dominoes, playing cards etc. (FSD? activity only)
Lesson 3	To collect data using tally charts and present it using bar charts.	Children will consider what makes a good/bad question when conducting a survey. They are shown some common problems and misconceptions that can arise when making bar charts, before planning and conducting their own survey and showing the data they collect using a bar chart.	• Can children devise a logical process for collecting data and presenting it in a bar chart? • Do children understand why (depending on context) it is often important to provide a choice of answers when collecting survey data? • Can children conduct a survey, collect data using a tally chart and present it in a bar chart?	• Slides • Worksheets 3A/3B/3C • Challenge Cards 3A/3B/3C • Rulers and tape measures • Squared paper (FSD? activity only)
Lesson 4	To read and present information in scaled bar charts.	Children will consider why it is useful to be able to present data in bar charts using different scales. Children will study several examples of data sets requiring bar charts at different scales, and learn how to draw and interpret bar charts at 2:1, 5:1 and 10:1 scales.	• Can children read information presented on scaled bar charts? • Can children choose an appropriate scale when presenting data using bar charts? • Can children accurately draw scaled bar charts?	• Slides • Worksheets 4A/4B/4C/4D • Bar Charts 4A (FSD? activity only)
Lesson 5	To solve questions with one or two steps by interpreting data presented in bar charts.	Children will consider strategies for unpicking word problems that can be answered using bar charts. They will be challenged to put what they have learned throughout the week into practice by reading and interpreting a variety of bar charts.	• Can children find the difference between groups of data presented in bar charts? • Can children identify the steps required to answer questions about data presented in bar charts? • Can children select appropriate sets of data to answer problems with one or two steps?	• Slides • Worksheets 5A/5B/5C/5D • Theme Park Bar Charts