

Collecting and Sorting Data : Maths : Year 3 : Summer Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To interpret data presented in bar charts, pictograms and tables.	Children will read and interpret data presented in a variety of ways, including tables, pictograms, block diagrams and bar charts.	<ul style="list-style-type: none"> Can children suggest ways of presenting data given in a written statement? Can children identify key features of tallies, pictograms and bar charts? Can children begin to interpret data in bar charts by asking and answering questions? 	<ul style="list-style-type: none"> Slides Worksheet 1A/1B/1C Statement 1A/1B/1C/1D/1E/1F (FSD? activity only) Blank writing/maths frames
Lesson 2	To consider how to collect data when doing a survey.	Children will consider how best to write questions with choices of answers when collecting data to be presented using pictograms and bar charts. They will then either generate questions for a survey, or decide on the most appropriate way of presenting given sets of data.	<ul style="list-style-type: none"> Can children think of detailed survey questions to ask that are related to a broader statement? Can children write or improve questions so that they produce data that can be presented in tables and charts? Can children plan a simple survey? 	<ul style="list-style-type: none"> Slides Checklist 2A/2B/2C Worksheet 2A Blank maths frame
Lesson 3	To make tables or questionnaires which can be used to collect survey data.	Children will use mind maps to help with planning a survey, then either draw tally charts to help them collect data or design simple questionnaires.	<ul style="list-style-type: none"> Can children identify questions which are not helpful when collecting data? Can children improve questions to help them collect useful data? Can children design tallies or simple questionnaires to help them collect data? 	<ul style="list-style-type: none"> Slides Worksheet 3A Challenge Card 3A/3B Questionnaire 3A/3B/3C Blank maths/writing frames
Lesson 4	To present data using bar charts with an appropriate scale.	Children will read and interpret data presented in bar charts with a variety of scales, then present given (or previously collected) sets of data using bar charts with appropriate scales.	<ul style="list-style-type: none"> Can children identify some choices regarding presenting and sorting data when making a bar chart? Can children suggest appropriate scales for bar charts? Can children present data using a bar chart? 	<ul style="list-style-type: none"> Slides Challenge Card 4A/4B Bar Chart (1:1, 2:1, 3:1, 4:1, 5:1, 10:1) sheets Blank maths frame Spreadsheet software (FSD? activity only)
Lesson 5	To write and answer questions using bar charts.	Children will learn strategies to help solve two-step problems about data presented in bar charts. They will then write and solve their own word problems about given sets of data.	<ul style="list-style-type: none"> Can children work methodically when answering questions using bar charts? Can children correctly identify the data in a bar chart required to answer a question? Can children write statements to show what they have learned by asking and answering questions about data in bar charts? 	<ul style="list-style-type: none"> Slides Worksheet 5A/5B Survey Report 5A/5B Bar Chart Challenge 5A/5B