

# Presenting Data : Maths : Year 4 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	<p>To interpret (discrete*) data using line graphs.</p> <p>*Only discrete data is shown in these lessons; however, it is not specifically referred to as such until lesson three.</p>	<p>Children will consider what kinds of data are better presented using line graphs, then read and interpret given sets of data presented using line graphs.</p>	<ul style="list-style-type: none"> <li>• Can children read data presented using line graphs?</li> <li>• Can children ask and answer questions about data shown using line graphs?</li> <li>• Can children decide whether bar charts or line graphs are more appropriate for showing given sets of data?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheets 1A/1B/1C</li> <li>• Challenge Cards 1A/1B</li> </ul>
<b>Lesson 2</b>	<p>To present (discrete*) data using line graphs.</p> <p>* Only discrete data is shown in these lessons, however it is not specifically referred to as such until lesson three.</p>	<p>Children will learn how to plot data on line graphs (some may do this on line graphs with a variety of scales), then plot given sets of data on given line graphs.</p>	<ul style="list-style-type: none"> <li>• Can children accurately plot given sets of data on a line graph?</li> <li>• Can children connect plotted points with straight lines?</li> <li>• Can children identify mistakes when looking at tables of data and corresponding graphs?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 2A/2B</li> <li>• Challenge Cards 2</li> <li>• Blank maths frames</li> <li>• Spreadsheet software and internet access (FSD? activity only)</li> </ul>
<b>Lesson 3</b>	<p>To interpret and present continuous data using line graphs.</p>	<p>Children will begin to consider differences between discrete and continuous data, noticing differences between the way they can be presented using bar charts and line graphs. They will then either practise plotting continuous data using line graphs, or consider what can be learned from given line graphs of data.</p>	<ul style="list-style-type: none"> <li>• Can children begin to identify ways in which sets of discrete and continuous data differ?</li> <li>• Can children plot given sets of data on a line graph?</li> <li>• Can children interpret data on a line graph, generating simple statements and predictions?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 3A/3B/3C</li> <li>• Challenge Cards 3A/3B</li> </ul>
<b>Lesson 4</b>	<p>To be able to present data in a bar graph and choose an appropriate scale for the vertical axis.</p>	<p>Children will learn how to choose and draw appropriate scales on bar charts depending on the data being presented. They will then practise making bar charts and presenting data using appropriate scales.</p>	<ul style="list-style-type: none"> <li>• Do children know that the vertical axis can have any scale?</li> <li>• Can children choose an appropriate scale according to the data given?</li> <li>• Can children present and analyse data in bar graphs?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 4A/4B</li> <li>• Challenge Cards A/B/C/D</li> <li>• Squared paper</li> <li>• Traffic Survey Data sheet (FSD? activity only)</li> <li>• Access to computers (FSD? activity only)</li> </ul>
<b>Lesson 5</b>	<p>To be able to draw bar graphs accurately, choosing an appropriate scale.</p>	<p>Children will answer a number of questions about given sets of data presented using bar charts as well as considering the effect of using different scales to present the same set of data. They will then create bar charts to show given sets of data at different scales.</p>	<ul style="list-style-type: none"> <li>• Can the children draw bar graphs accurately?</li> <li>• Can they draw and interpret bar graphs?</li> <li>• Can they decide on an appropriate scale for the vertical axis?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 5A/5B/5C</li> <li>• Squared paper</li> <li>• Challenge Cards A/B/C (FSD? activity only)</li> </ul>