

Graphs and Diagrams: Maths : Year 5 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to interpret a reading that lies between two unnumbered divisions on a scale.	Children will learn to interpret readings on unnumbered scales. Arrows will point to a point on a scale, challenging children to work out the value of the point, starting with whole numbers (including negative numbers) and extending to more challenging decimals.	<ul style="list-style-type: none"> • Can the children interpret a reading on a scale showing simple whole numbers? • Can they interpret more complex numbers on a scale? • Can they interpret negative numbers and decimals on a scale? 	<ul style="list-style-type: none"> • Slides • Mini whiteboards • Worksheet 1A/1B/1C
Lesson 2	To be able to construct and interpret line graphs.	Children will find out what the kind of data that can be presented in line graphs. They will identify the features of line graphs and learn to construct and interpret simple line graphs for themselves.	<ul style="list-style-type: none"> • Can the children draw a line graph with the vertical scale specified? • Can they draw a line graph without support? • Can they draw and interpret line graphs? 	<ul style="list-style-type: none"> • Slides • Worksheet 2A/2B/2C • Challenge Cards (FSD? activity only) • Access to internet (FSD? activity only)
Lesson 3	To understand where intermediate points on line graphs have and don't have meaning.	Children will recognise line graphs where the intermediate points have meaning and where they do not. They will read and interpret line graphs where there is meaning between points, and consider possible meanings for unlabelled line graphs.	<ul style="list-style-type: none"> • Do children recognise line graphs where the intermediate points have meaning? • Do children recognise line graphs where the intermediate points do not have meaning? • Can children construct and interpret line graphs? 	<ul style="list-style-type: none"> • Slides • Worksheet 3A/3B/3C/3D • Graph paper • Information Sheet (FSD? activity only)
Lesson 4	To be able to construct and interpret a line graph.	Children will interpret information on a line graph before constructing their own line graphs, making decisions about which scale to use and including all other necessary features. Higher-ability children will start to construct graphs with two sets of data.	<ul style="list-style-type: none"> • Can the children draw a line graph with the vertical scale specified? • Can they draw a line graph without support? • Can they draw and interpret line graphs? 	<ul style="list-style-type: none"> • Slides • Worksheet 4A/4B/4C • Graph paper
Lesson 5	To draw and compare two or more sets of data on a single line graph.	Children will explore how multiple sets of data can be expressed in charts and graphs. They will then focus on multiple sets of data being represented by line graphs. They will identify the key features of such graphs and have the chance to read, construct and interpret line graphs with multiple data sets independently.	<ul style="list-style-type: none"> • Can children associate multiple sets of data in a table to that shown in corresponding charts and graphs? • Can children plot two lines on a line graph? • Can children compare multiple data sets on a line graph by asking and answering questions? 	<ul style="list-style-type: none"> • Slides • Worksheet 5A/5B/5C/5D • Spreadsheet software (FSD? activity only)