Varied Fluency Step 3: Introducing Line Graphs

National Curriculum Objectives:

Mathematics Year 4: (4S1) <u>Interpret and present discrete and continuous data using</u> <u>appropriate graphical methods, including bar charts and time graphs</u> Mathematics Year 4: (4S2) <u>Solve comparison, sum and difference problems using</u> <u>information presented in bar charts, pictograms, tables and other graphs</u>

Differentiation:

Developing Questions to introduce line graphs and continuous data using up to 3 recordings per graph, with increments of 1 or 2 on the y axis.

Expected Questions to introduce line graphs and continuous data using up to 5 recordings per graph, with increments of 1, 2 or 10 on the y axis, where most recordings are directly in line with the marked increments.

Greater Depth Questions to introduce line graphs and continuous data using up to 5 recordings per graph, with increments of 1, 2 or 10 on the y axis, where not all increments are marked and where recordings are sometimes between marked increments.

More <u>Year 4 Statistics</u> resources.

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varied Fluency – Introducing Line Graphs – Teaching Information



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Varied Fluency - Introducing Line Graphs - Year 4 Developing

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Varied Fluency – Introducing Line Graphs – Year 4 Expected



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Varied Fluency – Introducing Line Graphs – Year 4 Greater Depth

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Developing

1a. The axis labels are missing.2a. Tuesday to Wednesday3a. Line from 5kg to 7kg.

Expected

4a. The label for the x-axis and the scales on the y-axis are missing.

5a. 6cm, 20minutes

6a. Line graph that accurately represents the data given.

<u>Greater Depth</u>

7a. The line should be continuous through all points on the chart. The axis labels are missing and there are values missing on the scale.

8a. 100 minutes, 45,000m.

9a. Line graph that accurately represents the data given.

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Developing

1b. The title is missing.
2b. 120p, 116p
3b. The data for 9pm accurately plotted and straight lines connecting the points accurately.

Expected

4b. The axis labels and some values are missing on the scales.
5b. 14°C, 11°C
6b. Line graph that accurately represents the data given.

Greater Depth

7b. The axis labels and some values are missing.

8b. 38°C, 3.5°C

9b. Line graph that accurately represents the data given.



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Varied Fluency – Introducing Line Graphs ANSWERS