Varied Fluency
Step 1: Read and Interpret Line Graphs

National Curriculum Objectives:

Mathematics Year 5: (5S2) Solve comparison, sum and difference problems using information presented in a line graph

Differentiation:

Developing Questions to support reading and interpreting line graphs. Graphs use labelled increments of 2, 5 or 10. Some data points are halfway between labelled increments where the halfway minor lines are shown but not labelled. Some reading between labelled increments of 2, where an estimate of the value must be given.
Expected Questions to support reading and interpreting line graphs. Graphs use labelled increments of any value, for example: 3's, 4's, 6's. Some data points are between labelled increments where the minor lines are shown but not labelled. Some reading between labelled increments of 2 or 5, where an estimate of the value must be given. Some data of time on the x-axis are labelled o'clock times and minor lines show unlabelled half past times.
Greater Depth Questions to support reading and interpreting line graphs. Graphs use labelled increments of any value, for example: 20's, 200's, 50's or 500's. Most data points are between labelled increments where the minor lines are shown but not labelled. Some reading between labelled increments of 2, 5 or 10 where an estimate of the value must be given. Some data of time on the x-axis are labelled o'clock times and minor lines show unlabelled half past or quarter past times.

More Year 5 Statistics resources.

Did you like this resource? Don't forget to review it on our website.

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Read and Interpret Line Graphs

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1a. What were the highest and lowest temperatures recorded?

D

VF

1b. How much snow fell between Friday and Saturday?

D

VF

2a. In which months did the puppy weigh 10 kg or more?

D

VF

2b. In which weeks were the temperatures 30°C or above?

D

VF

3a. In which season did the height of the bamboo start at 8 m?

D

VF

3b. How long did it take the astronaut to reach 7 m?

D

VF

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Read and Interpret Line Graphs

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4a. What was the difference in temperature between Midday and Midnight?

E VF

4b. What was the difference in height between 2 weeks and 6 weeks?

E VF

5a. What was the difference in Ella's heart rate at 15 and 30 minutes?

E VF

5b. What was the difference in temperature between March and May?

E VF

6a. Between which year groups did Ivy grow the least?

E VF

6b. At what time had Fiaz walked 10 miles?

E VF

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Read and Interpret Line Graphs

Read and Interpret Line Graphs

7a. What was the difference in heart rate between 5 and 15 minutes?

GD VF

7b. In which weeks was the height of the sunflower greater than 65 cm?

GD VF

8a. In which months did the giraffe weigh 38 kg or greater?

GD VF

8b. At what time is the temperature 25°C?

GD VF

9a. How many hours did the bus take to travel 500 miles?

GD VF

9b. How long did the vehicle take to reach 120mph?

GD VF

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Varied Fluency
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Developing

1a. Highest = 24°C; Lowest = 10°C
2a. Months 4, 5 and 6
3a. Winter 2018

Expected

4a. 9°C
5a. 22 bpm
6a. Between year 5 and year 6

Greater Depth

7a. 25 bpm
8a. Months 4, 5 and 6
9a. 5 hours

Varied Fluency
Read and Interpret Line Graphs

Developing

1b. 0 cm
2b. Week 2, 5 and 6
3b. 2 seconds

Expected

4b. 30 cm
5b. 13°C
6b. 3:30pm

Greater Depth

7b. Weeks 10, 11 and 12
8b. Approximately 8:45am.
9b. 80 seconds

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