

## Can I understand the meaning of points between labelled divisions on graphs?

### Teaching guidance

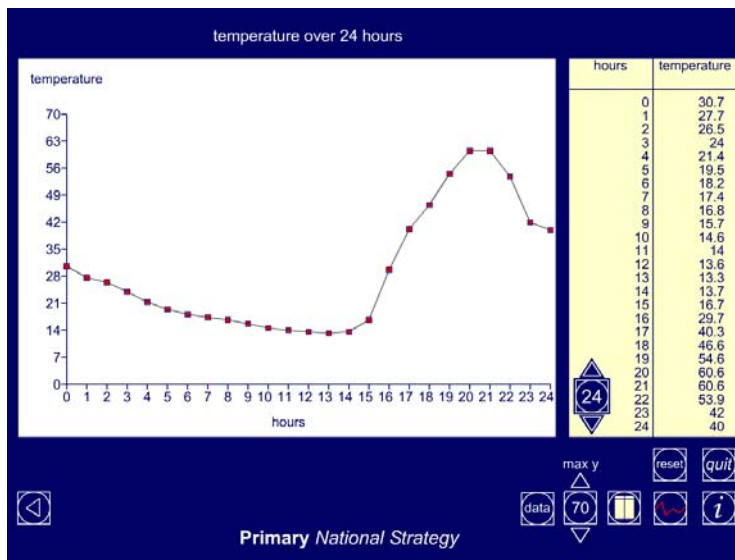
#### Key vocabulary

data, information, survey, questionnaire, graph, chart, table, scale, interval, division, horizontal axis, vertical axis, axes, division, unit, label, title, pictogram, bar chart, bar-line chart, line graph, pie chart, interpret, describe, explain

#### Models and images

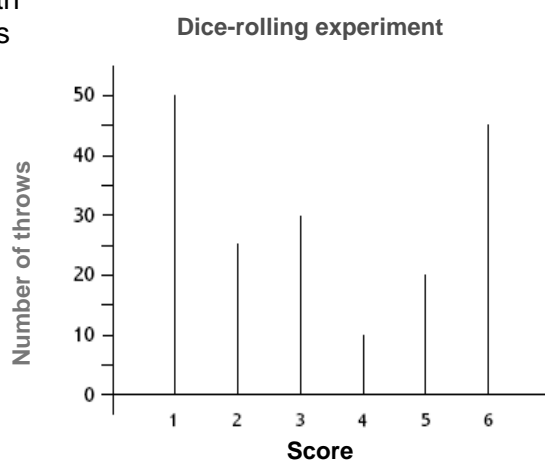
Use the *Line graph* ITP to create a line graph.

Change the scale on the y-axis and discuss the effect this has on the line graph.



*Line graph* ITP

Ensure children have opportunities to work with graphs and charts where results do not always occur at the labelled divisions.



## Teaching tips

- Help children to recognise the link between reading a scale on a bar chart or line graph and finding a number on a partly numbered line.
- Ensure children have opportunities to work with graphs and charts where results do not always occur at labelled divisions, and where axes are labelled in different increments from multiples of 2, 5 or 10.
- Model strategies for annotating graphs accurately to work out points between labelled divisions. Display examples of annotation as part of the classroom learning environment.



- Encourage children to annotate the charts and to use tracing paper where appropriate.
- Use ICT to experiment with the effect that changing the labelled divisions on the axes has on graphs (e.g. use the *Line graph* ITP). Make predictions, and then increase the number of divisions to check accuracy.