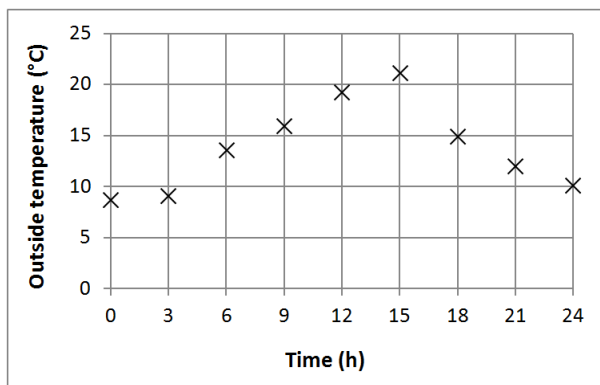


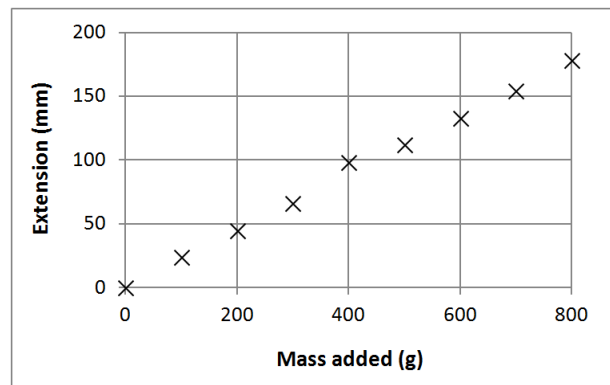
## Teacher Activity A: Drawing lines on graphs

- Look at the three graphs. Would you draw lines on each of these graphs?
- If so, where would you draw the lines? Would you join the data points? Would you draw straight lines or curves?
- Can you justify your choices in terms of the nature of the data in each case?

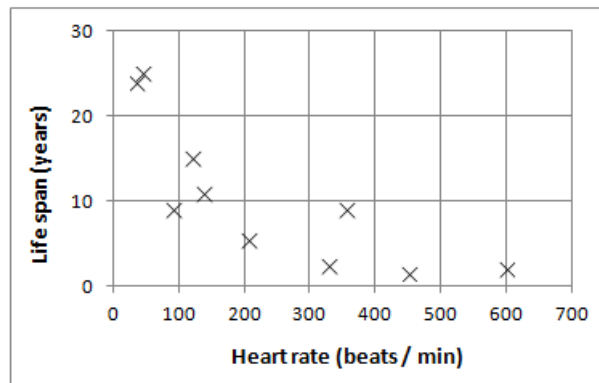
### 1) Outside temperature over a 24-hour period starting at midnight



### 2) Effects of adding slotted masses on the extension of a spring



### 3) Mean heart rates and life spans for selected mammals



Further information: *The Language of Mathematics in Science: A Guide to Teachers of 11-16 Science*, Section 3.6 Line graphs and scatter graphs: two related quantities (pp 29-32)

This activity is part of a series produce by MathsInScience.uk in order to promote engagement with the guidance booklet *The Language of Mathematics in Science: A Guide to Teachers of 11-16 Science*. Note that the activities are intended to stimulate discussion between teachers, and are not intended for student use. MathsInScience.uk is an independent organisation that aims to support the use of mathematics in the secondary science curriculum: see the website [www.mathsinscience.uk](http://www.mathsinscience.uk).