

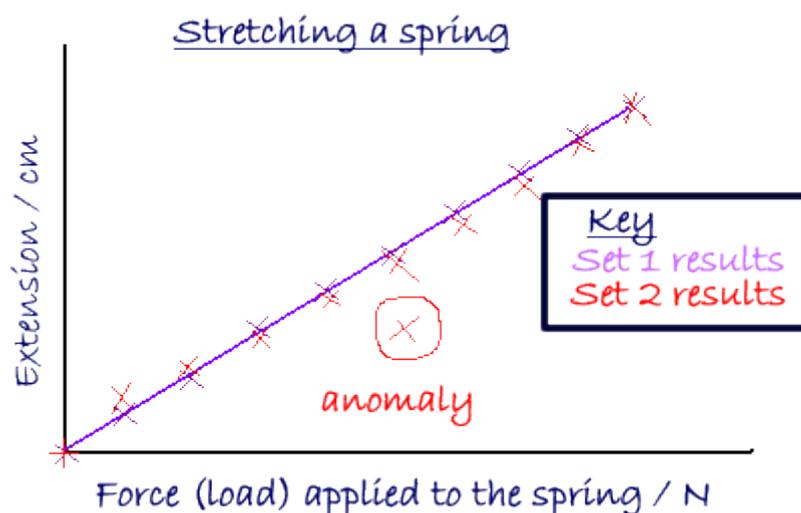
## Year 8 Science

Please have a go at as many of the following questions as you can, using internet research and your books to help where possible. Bring your answers to your next lesson.

1. How do you make a test fair? Can you give an example of steps you have taken in a practical this year to make a test fair?
2. When you are planning an investigation, there are a number of different pieces of information that you need to include in the plan. Can you write a check list of everything you would need to include for the perfect investigation?
3. At the beginning of year your first year in Lawnswood, you did some practice work with different pieces of lab equipment. Can you write a paragraph explaining how to safely use a Bunsen burner?
4. Try this one from memory as much as you can (but the information is on the internet if you are really stuck) – Produce an information leaflet that show the different hazard symbols, what they mean and rules for working with this kind of risk e.g. 'keep away from naked flame' or 'use goggles when working with these chemicals.
5. Can you explain the difference between an independent variable, a dependent variable and a control variable?
6. Can you name each of the above for the following investigation title -

***Does the temperature of water affect the time taken to fully melt an ice cube?***

7.



Looking at the graph above can you –

1. Describe the pattern shown by the results; make sure you give some example numbers to support your description?
2. Suggest a title for the investigation they carried out?
3. Suggest what an 'anomaly' is?
4. Give two possible ways they could improve the quality of their results?