



Valentines High School

KS3 Science Academic Learning Journey

Y7 Skills

- Analyse Patterns
- Calculate a mean from a set of data
- Read values from a line graph
- Discuss Limitations
- Identify variables that you could not control properly
- Identify aspects of the method that did not go according to plan
- Draw Conclusions
- Incorporate the pattern you found into an answer to the enquiry question
- Suggest a scientific reason for your findings
- Present data in correct form
- Decide the type of chart or graph to draw based on its purpose or type of data
- Label the x axis with the name of the independent variable and the y axis with the dependent variable.

Y7 Knowledge

- Cells
- Structure and function of body systems
- Reproduction
- Particles and their behaviour
- Elements, atoms, and compounds
- Reactions
- Acids and alkalis
- Forces
- Sound
- Light
- Space



### Y8 Skills

- Spot a data point that does not fit the pattern
- Estimate values of data between known values
- Suggest reasons for differences in repeat readings
- Compare your results to someone else's
- Comment on whether there is a real difference between data
- Justify whether anomalous results can be explained or ignored
- Write unit labels on the axes
- Decide which numbers to start and finish with on each axis

### Y8 Knowledge

- Health and lifestyle
- Ecosystem processes
- Adaptation and inheritance
- The Periodic Table
- Separation techniques
- Metals and acids
- The Earth
- Electricity and magnetism
- Energy
- Motion and pressure