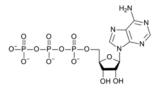


Year 10 Science Investigations



Overview

Science Investigations is an elective subject in year 10. It extends students beyond Core Science. Students will learn content and skills that will be very useful when studying any of the senior science subjects, particularly Physics, Chemistry and Biology. It will allow students to study some core science topics in more depth and will therefore help them with their year 10 Core Science studies.

This subject will provide experiences which will enable students to design, perform and write reports on experiments which is a necessary skill for all senior science subjects. It will also emphasize mathematical and graphical techniques used in science.



Students wishing to continue studying science subjects in years 11 and 12 should have performed well in core science in year 9 and should strongly consider studying *Science Investigations* in year 10.

Topics studied

Topico studicu	
The	In this unit students focus on microbiology, especially
Invisible	yeasts and bacteria. They will discover how we use
world	fermentation and the action of bacteria to make food
	and beverages. This will culminate in them making
	cheese.
Introduction	Students will learn some techniques of graphing that
to graphing	will enable them to interpret more meaningfully data
and EEIs	that they collect from experiments. Students will be
	exposed to data which show different types of
	relationships between variables.
Acids base	Students will learn the chemistry of acids and bases.
titrations	They will do calculations which involve the mole
	concept, stoichiometry and concentration of
	solutions. They will also learn the skill of doing an
	acid-base titration.
Electric	Students will investigate aspects of DC electric
circuits	circuits. They will learn to construct circuits and take
	measurements from these circuits. They will also
	design and perform experiments which will help with
	their understanding of electricity.

Study Pathways

