

# VCE Chemistry

Chemistry is the study of matter and answers questions relating to the makeup of the fabric of the universe. Chemistry helps you acquire the key skills and knowledge required to pursue further scientific studies.

Unit 1 & 2	Unit 3 & 4
<p>In Unit 1 &amp; 2 you will:</p> <ul style="list-style-type: none"><li>• Learn about elements and their atomic structure</li><li>• Investigate the properties of metals, salts, and carbon-based molecules; and their reactions in solutions</li><li>• Investigate the properties of water</li><li>• Learn mole-based calculations for reactions</li><li>• Complete practical investigations of acids and bases</li><li>• Research chemical innovations for a sustainable future</li></ul>	<p>In Unit 3 &amp; 4 you will:</p> <ul style="list-style-type: none"><li>• Compare the chemistry of renewable and non-renewable sources of energy</li><li>• Apply green chemistry principles to concepts</li><li>• Explore the rates and yields of reactions</li><li>• Analyse organic chemistry reactions</li><li>• Investigate medicinal chemical molecules</li><li>• Undertake a student designed practical investigation</li></ul>
Types of assessment	Class Activities
<ul style="list-style-type: none"><li>• Tests and quizzes</li><li>• Data analysis</li><li>• Annotations of a practical work folio</li><li>• Report of a practical activity</li><li>• Media response</li><li>• Problem solving involving chemical concepts</li></ul>	<ul style="list-style-type: none"><li>• Experiments</li><li>• Problem Solving</li><li>• Data analysis</li><li>• Building molecular models</li><li>• Collaborative group work</li><li>• Online simulations and activities</li></ul>

## Careers that may link to this subject area

Biochemist  
Food Technologist  
Medical Practitioner  
Radiologist

Chemical Engineer  
Forensic Scientist  
Optometrist  
Science Teacher

Dentist  
Agronomist  
Pharmacist  
Nutritionist

Sports Scientist  
Laboratory Technician  
Physicist  
Veterinarian

