



VICTORIAN
SPACE SCIENCE
EDUCATION
CENTRE

VCE: Chemistry Unit 4: Organic Chem.

Area of Study 1: Organic Chemical Pathways

Outcome 1: Medicinal Chemistry.

Students undertake a major laboratory program at school and at VSSEC. All students will use the InfraRed Spectrometer, the UV-Visible Spectrometer and the High Performance Liquid Chromatograph.

Experiment 1: The Synthesis of Acetyl Salicylic Acid. Students synthesise aspirin in their school lab.



Experiment 2: The Purification of Acetyl Salicylic Acid.

Students use recrystallization to purify their sample, testing the purity using the ferric chloride test and melting point determination.

Experiment 3: Infrared Spectral Analysis of Analgesics

Students use the FTIR to analyse their aspirin sample and determine the extent of the conversion from salicylic acid to ASA.

Experiment 4: Analysis of Analgesics by Ultraviolet-Visible Spectroscopy.

Students analyse aspirin tablets using the UV-Vis spectrometer to determine the mass of ASA in each tablet.



Experiment 5: Analysis of Analgesics by High Performance Liquid Chromatography. Students determine the concentration of ASA and paracetamol in tablets using the High Performance Liquid Chromatograph.

Time: 9:00am — 3:30 pm

Cost: \$35 per student plus GST. (Interstate and international students P.O.A.)

Please ask if your school is eligible for a subsidy.

Maximum group size: 18 students



Victorian Space Science
Education Centre
400 Pascoe Vale Road,
Strathmore VIC 3041

Ph: (03) 9379 3456
Fax: (03) 9374 3855

bookings@vssec.vic.edu.au

www.vssec.vic.edu.au

VCE: Chemistry Unit 4 Organic Chem.



VSSEC

Booking Form

Bookings can also be submitted online at www.vssec.vic.edu.au

Name: _____

School Name: _____

Address: _____

Telephone: _____ **Fax:** _____

Email address: _____

Number of students attending (max 18): _____

Number of teachers attending: _____

Please nominate three dates/times in order of preference.

Bookings are popular and are allocated on a first come first served basis.

1. _____

2. _____

3. _____

VCE Program (Unit 4 Organic Chemistry - \$35 (plus GST) per student. (Interstate and international students P.O.A. Please ask if your school is eligible for a subsidy.) This covers all equipment, workbooks, reagents and materials used during the program.

Your reservation will be confirmed via email. You will then have one week to confirm your booking with a \$100 non-refundable deposit. Upon receipt of your deposit your pre-visit material will be sent to you.

A maximum of 4 teachers can accompany the student at no cost.

Liability: Schools may be liable for any damages caused by their students to any equipment or furniture within the Space Centre.

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**Please make cheques
payable to:**

Strathmore Secondary
College

Ref: CHEMdeposit

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