



VICTORIAN
SPACE SCIENCE
EDUCATION
CENTRE

VCE: Astrophysics

A full-day program covering Key Knowledge and Skills for VCE Physics Unit 2 Detailed Study 3.1.

This program includes describing and explaining methods used to gather information about stars and other astronomical objects, and relating this information to models of the nature and origin of the Universe.

Using the Galactic Explorer software, designed by the Games Technology Centre at La Trobe University, students tour the galaxy gathering data to produce a Hertzsprung-Russell diagram which they then use to explore the characteristics of stars including, size, mass, energy output, colour and radiation spectrum. Students investigate Cepheid variables and red shift, and discuss visual parallax.



In the theatre students examine the nature and origin of the stars, planets, galaxies and the universe. They then use this knowledge to explore the expansion of the universe and Hubble's constant.

This program includes a pre-visit lesson to introduce students to the topic, a student workbook which provides teachers with a basis to assess the unit and a teacher assessment package with the results of the students' activities.

Year level: 11

Time: 9:15am — 2:45 pm

Cost: \$25 per student plus GST. (Interstate and international students P.O.A. Please ask if your school is eligible for a subsidy.)

Maximum group size: 24 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: Astrophysics – 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 24): _____

Morning tea/lunch optional @ \$10 (plus GST) per person.

Student lunches required (please circle): YES NO

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

Number of teachers attending: _____ **Number of teacher lunches required:** _____

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: Astronomy - \$25 (plus GST) per student. (Interstate and international students P.O.A. Please ask if your school is eligible for a subsidy.) Includes:

- All equipment and manuals used during the mission;
- Teacher assessment package;
- Morning tea/lunch optional @ \$10 (plus GST) per person.

If lunches are requested, dietary requirements will be required at least 1 week prior to your session, if no dietary requirements are received we will supply the standard lunch.

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-program training material will then be sent to you.

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**Please make cheques
payable to:**

Strathmore Secondary
College

Ref: PHY1deposit

ABN: 52 165 055 724