



VSSEC

VICTORIAN
SPACE SCIENCE
EDUCATION
CENTRE

The Right Stuff: Human Bioscience

A hands-on program to test an astronaut's fitness.

The Right Stuff is an excellent introduction for students studying health, human biosciences and human performance.

Students take their own measurements using specialist equipment, including the Vital Signs Monitor, and interpret the data to calculate their fitness for space travel.



Students prepare blood slides and test urine to screen for disorders and diseases in astronauts.

They also learn why radiation is dangerous in space by creating a cloud chamber and then design effective methods of blocking different types of radiation.

Students will perform tests on own bodies for the following data:

- Height and weight
- Heart rate
- Blood pressure
- Respiration rate
- Blood-oxygen saturation
- Hand-grip strength
- Visual acuity.

Students conduct three detailed investigations:

- Cardio-vascular fitness using exercise bicycles
- Protection from cosmic and solar radiation
- Blood and urine analysis

Year levels: Year 9 — 11.

Time: 9.30am — 3.15 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

Minimum group size: 12 students

The Right Stuff—Booking Sheet



VSSEC

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 30): _____

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. _____

Human Bioscience - \$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 program.

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

Your reservation will be confirmed via email. You will then have one week to confirm your booking with a \$100 non-refundable deposit.

If wheelchair access is required, please notify in advance.

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

**Victorian Space Science
Education Centre**

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E bookings@vssec.vic.edu.au

www.vssec.vic.edu.au

**Please make cheques payable
to:**

Strathmore Secondary College

Ref: HBdeposit

ABN: 52 165 055 724