



**VSSEC**

VICTORIAN  
SPACE SCIENCE  
EDUCATION  
CENTRE

# Reach for the Stars

Discover the fundamentals of rockets, energy and Newton's Laws of Motion.

Begin the investigation at your school, and complete it at VSSEC!

Students begin their investigation using the VSSEC Energy and Motion website at school to investigate energy transformations and Newton's Laws of Motion. The website links students to a carefully selected range of videos and demonstrations which illustrate and explain ideas about energy and motion, which include:

- Examining the physics of Road Runner.
- Interactive animations from the University of Manchester.
- Building an online rollercoaster.



This project is designed to be self-directed. Students record their work using foldables, which is a fun, engaging and useful way to present their work.

During their visit to VSSEC students design, build and launch water rockets. Students track the transformations of energy during the launch, flight and landing of their rockets. They see Newton's Laws of Motion in dramatic action.

Water rockets are a safe, simple and fun way to demonstrate these principles.

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**Year levels:** Year 7 & 8.

**Time:** 9:30am — 12:00pm or 12:30pm — 3:00pm

**Cost:** \$10 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

If you would like to bring two classes for the whole day to VSSEC this program combines well with **The Stars in Your Life**.

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

# Reach for the Stars – Booking Form



Bookings can also be submitted online at [www.vssec.vic.edu.au](http://www.vssec.vic.edu.au)

To allow time to complete your pre-visit work it is recommended that you book a minimum of 4 weeks in advance.

**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.

Times: 9:30am — 12:00pm or 12:30pm — 3:00pm

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

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

Reach for the Stars - \$10 (plus GST) per student. (Interstate and international students P.O.A. Please ask if your school is eligible for a subsidy.) Includes:

- Pre-visit lessons.
- All equipment and manuals used during the mission.

A minimum of 1 or 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 \$50 non-refundable deposit.

Please notify VSSEC if there are any students within the group with special medical or learning needs.

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: RFTSDEP

ABN: 52 165 055 724