Reach for the Stars

Years 7 & 8

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

At school students conduct their own investigation into energy transformations and Newton’s Laws of Motion.

At VSSEC they build design, build and launch their own water rockets. They track the energy in the launch, flight and landing of their rocket.

Students use the VSSEC Energy and Motion web site 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.

Students will love the Wile E Coyote video. The University of Manchester site includes an interactive animation with a built in quiz to test student understanding as they go along. Students can even build their own on-line roller coaster.

This project is designed to be self-directed. Students record their work using foldables. If this is their first use of foldables they will find them to be 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.

**Time:** 9:30am - 12:00 pm or 12:30pm - 3:00pm  
**Cost:** $10 per student plus GST (includes pre-visit lessons and VSSEC mission).

Please ask if your school is eligible for a subsidy.

**Maximum group size:** 30 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.*

For more information and bookings please visit our website  
[www.vssec.vic.edu.au](http://www.vssec.vic.edu.au)
BOOKING REQUEST FORM

Reach for the Stars

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 - 12:00 pm 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 includes:
- Pre-visit lessons
- All materials used in the construction of water rockets

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.

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

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

Contact Us:
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Ref: RFTSDEP
ABN: 52 165 055 724