



**STARCHASER**  
commercial space access

## BOOKING NOTES FOR STARCHASER EDUCATION - SENIOR VISITS

### GENERAL INFORMATION

Starchaser's Educational Outreach sessions are booked in half day blocks (3 hours) or full day blocks. The brochure issued by Starchaser for the 2007/08 academic year includes descriptions on the sessions available to secondary schools. Neither the timings of the sessions, nor the age groups that they are suitable for are strictly limited. The sessions that Starchaser offer fall into 3 groups; Talks, Shows and Workshops. The sessions that are shorter (Talks, Shows and the Rocket Factory 1) can be repeated throughout a booking block.

### SESSION TIMINGS

	Block Length	Number of Sessions
<b>TALKS</b>		
Team Starchaser	Full Day	5
At Home in Space	Full Day	5
One Small Step	Full Day	5
History of Manned Space Flight	Full Day	5
<b>WORKSHOPS</b>		
Rocket Factory 1	Half Day	4
Rocket Factory 2	Half Day	1
Rocket Factory Plus	Full Day	1
START	Full Day	1
<b>SHOWS</b>		
Propulsion Lab	Full Day	4
Cosmic Chemistry	Full Day	4
Stardome	Full Day	5

The longer packages break down into the following sections:

### ROCKET FACTORY 2

1. Introduction (15 Minutes): Introduction to model rocketry and the tools required
2. Build (1 Hour 45 Minutes): Building the model
3. Flight (60 Minutes): Flying the model

### ROCKET FACTORY +

1. Rocket Science 101 (60 Minutes): Forces in rocketry and rocket chemistry including a practical baking powder rocket engine design challenge.
2. Maths & Rocketry (30 Minutes): An introduction or refresher session on trigonometry including the construction of a theodolite.
3. Rocket Factory 2 (3 Hours): Practical activity building and flying model rockets
4. Preparing your report (15 Minutes): Processing the data from the flight to calculate flight height.
5. Develop the Report (45 Minutes): Teacher led time in which to develop either a written or oral report on the science of rocketry.

### START (STARCHASER ROCKET TECHNOLOGY DAY)

1. START; an interactive presentation in which the audience is led through man's most important space achievements from the first rockets to the new space race...
2. PROPULSION LAB; a visually impressive show full of explosive experiments and demonstrations will serve as an introduction to how rocket engines work. From the Newtonian principles behind flight to the firing of a real rocket engine...
3. THE ROCKET CHALLENGE; the ultimate rocket building event. Working in small team's participants will build a variety of rockets up to 1 metre in height and launch them in a spectacular and competitive conclusion to the day's activities.

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