

Propulsion Lab Show

Subject Area(s):	Science
Key Stages:	Ideal for KS 3 and 4
Time Requirements:	
Set-Up Time	20 Minutes
Duration	50 Minutes
Reset Time	10 Minutes
Set Down Time	20 Minutes



Description: The propulsion lab consists of demonstrations, videos and activities on the theme of propulsion. The show is an exciting visual display focusing on Starchaser's development of rocket engines. Starting with a demonstration of Newtonian mechanics leading to how they apply to space flight and rocket science. The videos will enable participants to comprehend the complexities and power of getting into space, whilst a series of experiments will educate and entertain.

Learning Points:

- Newtonian mechanics
- Orbits
- Chemical equations in relation to rocketry
- Thrust and how it is generated
- Forces on rockets during flight

Group / Class Size: 80 maximum

Space Requirements: Presentation area including 2 tables and at least 2 metres clearance between tables and audience

Equipment Requirements: Data projector, screen and speakers (in general built in and PC speakers are inadequate for the task). 2 tables

Notes: It is strongly advised that smoke detection equipment is **disabled** within and near to the performance area