

Balloon Rockets

Dr Kathryn Harkup



It is Rocket Science

Balloon Rockets

"Take your protein pills and put your helmet on"*

Man has dreamt of travelling to the moon for centuries yet we only achieved this extraordinary feat less than fifty years ago and only twelve men have ever landed on its surface. This workshop looks at the science of how rockets are launched into space and attempt to launch our own mission to the moon.



The Workshop

45 to 60 minutes to a maximum of 30 people

This workshop explores Sir Isaac Newton's theories of gravity, forces and motion which are still used to launch vehicles into space. After a short talk about the history of rockets and space travel, students use their scientific knowledge to design and build paper rockets with fuel tanks made from balloons. Teams compete to see who can reach the moon first.



Curriculum Links

Suitable for Key Stages 2 to 4

This workshop relates to science curriculum topics on materials - changing materials, changing state and energy changes in reactions; forces - types of force, gravity, forces and motion; the Earth and beyond - Sun, Earth and Moon, artificial satellites.



Contact

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