

DATE: Please check for availability

TIME: 9:30AM – 3:30PM

LOCATION: In school

Lunch is not included

For more information, or to book a masterclass session, please contact Lisa Colford, National Space Academy Administrator: lisac@spacecentre.co.uk or 0116 2582 147

Course Overview

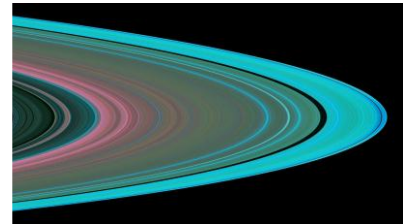
The GCSE Mathematics masterclass uses the challenges of space exploration and astronomy as the basis of an intensive day-long course designed to support GCSE students in their curriculum studies.

The challenges that form the body of the narrative are:

- How do astronauts see space?
- How do we see space?
- How big is space?
- How can we find out if there is alien life?
- The images of our galaxy and why they're important
- How long it takes us to explore space
- Careers in the science sector for Mathematicians

These elements are used as contexts for curriculum topics including:

- Trigonometry
- The speed equation
- Upper and lower bounds and estimating
- Standard Form
- Surface area and volume
- Distance time graphs



“Wow, mind-blowing! The students spent the whole day being inspired and challenged. The activities which engaged the students in Physics and Maths were fun, the pace was fast and the delivery was dynamic...An extremely high-quality programme”

Jane Shearer, Head of Biology and Teacher in charge of Enrichment Programmes in Science at Sir Jonathan North Community College

Course Details

- Full- day masterclasses are hosted 'in school' from 9.30am to 3.30pm. Half-day from 9.30am – 12.30pm or 12.30pm – 3.30pm
- Lunch is not provided
- Maximum group size 30 students

During the day a mixture of theory, practical and modelling is used. Students will be exposed to space study while exploring all topics using GCSE maths.

The courses can be individually tailored for given cohorts of students depending on their Year Group, ability range and specific Programme of Study.

Masterclass Options and Pricing

Half – day masterclass at your school* £195.00 + VAT

Full – day masterclass at your school* £295.00 + VAT

*There will be an additional charge for travel expenses

Other National Space Academy Programmes

Through the National Space Academy Partnership we can offer intensive study support sessions focused on specific areas covered in the masterclasses or on targeted examination revision for specified GCSE/AS/A2 specifications.

For further information please contact the National Space Academy Administrator, Lisa Colford:

lisac@spacecentre.co.uk

[**www.nationalspaceacademy.org**](http://www.nationalspaceacademy.org)