



# VOYAGE TO THE ICE REALM



On this voyage of adventure, we leave Earth behind and go off in search of life on the icy world of Saturnian moon Enceladus. Along the way, we discover the best space exploration techniques available and learn what it takes to visit a brand new place and uncover secrets. Do you think there is life hidden in plain sight?



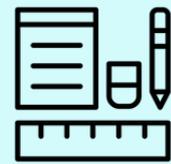
## KNOWLEDGE

We use topics encountered in GCSE physics, chemistry and biology to solve puzzles on our journey. We highlight the diverse set of skills required for space exploration, giving the message that space truly is for all.



## STRUCTURE

The workshop is split into 4 sections which can be adapted around the schedule of the school day. There is a nice balance of talks and group activity to keep the students entertained and engaged.



## ACTIVITY

Students will be set 4 challenges throughout the day to complete within their groups. These tasks will develop teamwork, leadership, research and communication skills and encourage scientific enquiry and a sense of belonging.

This expert-led workshop is suitable for students in KS4 & 5.

We require:

- a screen to project on
- desk space for students
- access to the internet

Activity packs are needed for this workshop so the students have all the resources needed. A choice of packs is available upon booking.

Price: £250.00 + travel costs + activity packs (from £2.00 per pupil).



## BOOK NOW!

To book or discuss your Mission Astro workshop, contact Dr Sarah Crick on [sarah@justgoodscience.org](mailto:sarah@justgoodscience.org)

**5-hour session.**  
**Group sizes up to 100 students.**  
**1 prize given per visit.**

## WARNING!

Our workshops are known to create huge space ambitions and curiosity in students and teachers alike! With time and nurturing, these side effects will grow! We encourage big dreams!

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# VOYAGE TO THE ICE REALM: ACADEMIC CONCEPTS

Here is a breakdown of the topics covered in the four sections of the workshop.



## THE ESCAPE

The first challenge in our quest is to escape the Earth and reach our checkpoint on the Moon. We discuss spaceports, rockets, combustion and space comfort needed to blast us off the Earth.



## MOON BASE

On the Moon we make a habitat. We explore what we learnt the first time on the Moon and look at the advantages of going back. We discuss the sustainability of space resource usage.



## CROSSING THE BELT

On the long trip across the Solar System to Saturn, we discover the importance and dangers of asteroids. We see the science space rocks can tell us about planet structure and our origins.



## THE DEEP

After landing on Enceladus, we set our robotic explorers the task of hunting for life underneath the icy surface. We discuss markers of life and how to hunt down possible life off Earth.

## EXCLUSIVE!

In addition to the workshop being lead by a speaker with a PhD in Astronomy, there are clips of our interviews with space professionals intertwined into the sessions.

If you had 24 hours on Enceladus, what would you do?

The academic content for this workshop has been written by Dr Sarah Crick and developed in-house at Mission Astro by our expert team. It is updated regularly in line with current space exploration findings.

