ESPLORA
SPACE SUMMER CAMP WITH ASM

Astronomical Society of Malta

25th-28th July

€30

	Tuesday 25th July	Wednesday 26th July	Thursday 27th July	Friday 28th July
09.00 09.15 09.30 09.45	Ice Breaking Activity	Equipment tutorial, spectroscopy and solar projection	Daytime astronomy. Solar observation	3, 2, 1, Lift Off!
10.00 10.15 10.30 10.45 11.00 11.15	Diving deep into the Universe and our curiosity: an introduction session and Q&A	Lunar Mission 1.0	Planetarium Experience	ESA Spacecraft Materials kit Exploration
11.30 11.45 12.00 12.15	**Break**	**Break**	**Break**	**Break**
12.30 12.45 13.00 13.15 13.30 13.45	Astronaut Challenge Planning the night! Stellarium tutorial	How to observe the night skies. Choosing the right telescope	Astro coding session, learning how to turn observations into information	A Colony on Mars
14.00	**End of Day**	**End of Day**	**End of Day**	**End of Day**
19.30 19.45 20.00 20.15 20.30 20.45 21.00				Evening Observation Session

Workshops by Esplora

Sessions by ASM

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Day 1

Ice Breaking Activity
Lets get to know each other before we kick off the summer camp!

Diving deep into the Universe and our curiosity: an introduction session and Q&A
We'll start off this summer camp by taking a voyage deep into the Universe. From the moons of our solar system to the colourful dust clouds that are nebulae, and all the way out to the furthest galaxies. Any curiosities and questions you may have, are more than welcome in this open discussion all about space.

Eggstronaut challenge
Your Egg astronaut is trapped on the International Space Station! You need to help it come back safely to Earth. Build a spacecraft and try to land the poor Eggstronaut safely without breaking it. Unleash your creativity and challenge your friends or family! Whose egg will survive the landing?

Planning the night! Stellarium tutorial
Any good Astronomer always knows what the target of the night will be before setting out. For this reason, we will be learning all about the popular Sky tracking app stellarium, available on both mobile and computer!

Day 2

Experiments from the past, a tutorial in spectroscopy and solar projection
Once upon a time, there weren't fancy tools and computers. Astronomers had to make do with basic equipment that taught us the very basics of our universe. Together we will be exploring these tools and experiencing what the first scientists saw centuries ago!

Lunar Mission 1.0
Your Egg astronaut is trapped on the International Space Station! You need to help it come back safely to Earth. Build a spacecraft and try to land the poor Eggstronaut safely without breaking it. Unleash your creativity and challenge your friends or family! Whose egg will survive the landing?

How to observe the night skies. Choosing the right telescope
Telescopes come in many shapes and sizes, each with their own role in exploring the skies. In this tutorial you will learn all about these types of telescopes, as well as how to choose the best telescope for the job!

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Day 3

Daytime astronomy. Solar observation

Astronomy isn't only done at night; our Sun is an important part of both our lives and the Universe around us. We will be taking a look at the Sun using special equipment, becoming solar scientists for an entire morning!

Planetarium Experience

Sit back, relax, and hop on a journey into space at the Esplora Planetarium Theatre. Immerse yourself in an amazing planetarium experience which will embrace the wonders of the universe and the night sky as well as other features of the amazing space environment.

Astro coding session, learning how to turn observations into information

Having done the observations, we must now do the science. A big part of an Astronomer's job is to analyse the data we have collected and turn that data into information that we can learn from. Together we will be looking at our solar observations and doing our very own science!

Day 4

3, 2, 1, Lift Off!

Do you love rockets? Are you ready to craft your own paper rocket and launch it up and away? This exciting activity will surely blow you away as you explore the fascinating science behind rocket aerodynamics and their launches.

ESA's Spacecraft Materials Kit Exploration

Prepared by the European Space AgencY, this is an innovative workshop that provides valuable insights into the materials used in spacecraft construction. From lightweight alloys to advanced composites, the workshop will foster an interesting understanding of the materials that drive the success of space exploration missions.

A Colony on Mars

Ever considered the possibility of moving to planet Mars? In this workshop we will explore and discuss all the details of what it involves preparing a colony on Mars. What will we eat? Where shall we live? Who will go? Put your thinking hats on and get ready for debate!

ASM Evening Observation Session

The final session of the Summer Camp will be an evening observatory session at the Maddalena Chapel Area in Dingli. This will be conducted by ASM from 19:30 onwards.

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