

iASTRONOMER

Aug

Jan

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Feature of the Month

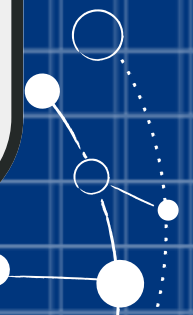
**SPACE MISSIONS**

# Monthly Planner August

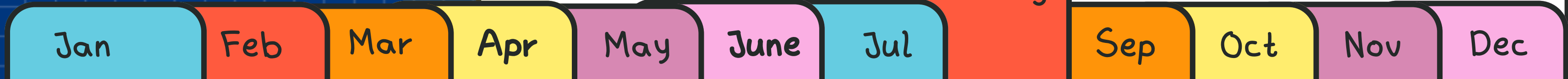
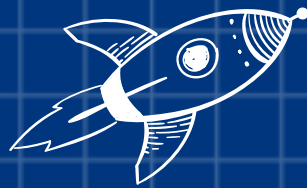
iAstronomer Club



**SPACE**<sup>TM</sup>  
EMPOWERING LIFE







# Countdown to Liftoff: Science Behind Missions

3 August



SYNOPSIS

Week 1 Meeting

☀️ In our upcoming iAstronomer meeting, we will investigate the scientific principles that underpin space exploration. In this meeting, participants will dig into the intricacies of rocket science, orbital mechanics, spacecraft design, and scientific data collection.

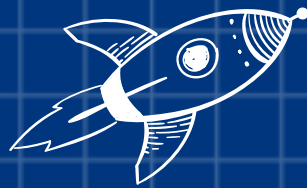
🚀 Through engaging discussions and interactive presentations, participants will gain a comprehensive understanding of the remarkable world of space missions and the profound impact they have on scientific discovery and technological advancement. Get ready to be inspired by the wonders of outer space!

Activity Highlight

**Velocity: Launching the ISS into Orbit:** Participants will find a way to launch sections of the ISS into orbit at just the right speed to keep the orbit from going too high or too low.







# Cracking the Code: Mission Navigation and Guidance

10 August



SYNOPSIS

Week 2 Meeting

☀️ In this iAstronomer meeting, we will explore the intricate processes of spacecraft navigation and guidance that enable spacecraft to reach their final destinations successfully. During this meeting, participants will know about the exploring trajectory planning, onboard navigation systems, deep space communication, course corrections, planetary entry and landing, hazard avoidance, and the integration of autonomy and AI.

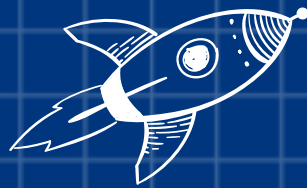
🚀 Participants will gain a comprehensive understanding of how space missions reach their final destinations successfully.

Activity Highlight

**Descending onto the Exoplanet:** Participants will design a parachute for a miniature action figure. Tissue paper or a plastic bag and a few strings is all it takes to make your figure into an expert skydiver.







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# Artemis Mission

17 August



SYNOPSIS

Week 3 Meeting

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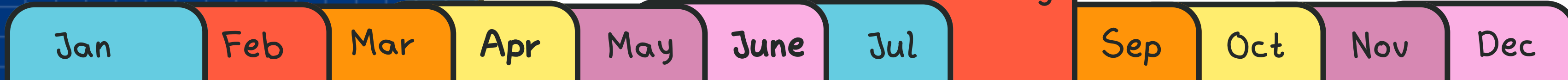
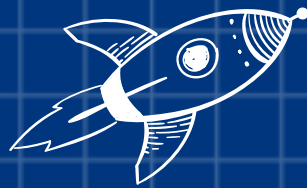
🚀 Through engaging discussions and interactive presentations, participants will gain a comprehensive understanding of the remarkable world of space missions and the profound impact they have on scientific discovery and technological advancement. Get ready to be inspired by the wonders of outer space!

Activity  
Highlight

**SLS Rocket Model:** Participants will design a NASA's SLS Rocket Paper Model and replicate the model of the launch vehicle.







# What's Up in the Sky

24 August



GROUP DISCUSSION

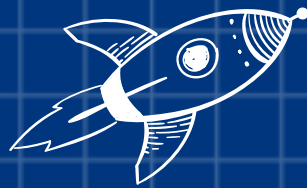
Week 4 Meeting

This meeting explores celestial events in September, highlighting the fascination of astronomy and its omnipresence in our surroundings. 🌟🔭 iAstronomers will engage in observing these captivating events while also exploring historical milestones from this month. 📖

🌌 With iAstronomers taking the lead, this interactive meeting encourages engagement and collaboration, fostering a dynamic exchange of knowledge within the astronomical community.







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# Perseid Meteor Shower

12 August



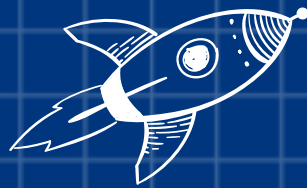
SELF OBSERVATION & ASTROPHOTOGRAPHY



- 🪐 Dive into the world of Meteor Shower & Meteors and the incredible science behind it. 🚀 Discover the process of capturing and recording the Perseid Meteor Shower. 🌌 Engage yourself in the process of Meteor Shower Observation and observe the perseid Meteor Shower. 💡 Shoot the shower video and capture the marvellous pictures of meteor light streaks
- ☀️ Unearth the wonders of our solar system and beyond. Share your astro-photographs, videos and experience of watching Perseid Meteor Shower with us and submit your entries.







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# National Space Day

23 August

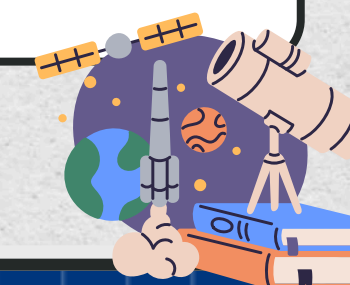


SELF OBSERVATION & ASTROPHOTOGRAPHY



🚀 National Space Day will be celebrated on 23rd August 2024. This day has been declared as 'National Space Day' to commemorate the success of the Chandrayaan-3 mission with the landing of the Vikram lander and deployment of the Pragyaan Rover on the lunar surface. 🌌 Engage yourself in a day filled with learning, exploration, and astronomical fun with online panel discussion or other events & activities!

💡 The theme selected for the first National Space Day is **“Touching Lives while Touching the Moon: India’s Space Saga”**. 🌟



See you in iAstronomer meetings.  
Wish You Clear Skies!!

iAS  **RONOMER** Club by



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