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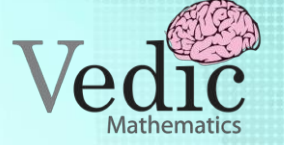
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Space & Astronomy:

Key Points on the 2027 Eclipse

The total solar eclipse on August 2, 2027, is a significant astronomical event. It's being called the "eclipse of the century" because it's expected to have the longest period of totality visible from land in the 21st century.

Duration: The total darkness will last up to 6 minutes and 23 seconds in some locations.

Path of Totality: The eclipse's path will cross parts of Spain, North Africa (including Egypt), and the Middle East.

Other Space and Astronomy News

ISRO's Analogue Mission in Ladakh: The Indian Space Research Organisation (ISRO) has started a 10-day analogue mission in Ladakh to simulate conditions for future human space exploration. The mission, named Himalayan Outpost for Planetary Exploration (HOPE), is testing an inflatable habitat and monitoring a two-member crew to understand the physiological and psychological effects of living in isolation.

NISAR Satellite Launch: The successful launch of the NASA-ISRO NISAR satellite has been confirmed. This joint project is a radar imaging mission designed to map the Earth's land and ice for climate monitoring. ISRO chairman V. Narayanan stated that the launch was one of the most precise in the world.

SpaceX Crew-11 Launch: The SpaceX Crew-11 mission to the International Space Station (ISS), which was postponed on July 31 due to bad weather, was successfully launched on August 1, 2025. The mission carries an international crew for a six-month scientific mission.

August Skywatching: For skywatchers, August 2025 will feature a close conjunction of Jupiter and Venus on August 11th and 12th. The annual Perseid meteor shower will also peak on August 12th, but a bright Moon will unfortunately make viewing difficult.

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- a) Himalayan Space Outpost (HSO)
- b) Planetary Exploration Outpost (PEO)
- c) Martian Simulation Outpost (MSO)
- d) Himalayan Outpost for Planetary Exploration (HOPE)

Answer: d) Himalayan Outpost for Planetary Exploration (HOPE)

The report identifies the mission as the "Himalayan Outpost for Planetary Exploration (HOPE)," which is designed to simulate conditions for future human space exploration.

3. What is the primary objective of the NISAR satellite?

- a) To search for new exoplanets.
- b) To act as a communication relay for space missions.
- c) To map the Earth's land and ice for climate monitoring.
- d) To observe deep-space phenomena.

Answer: c) To map the Earth's land and ice for climate monitoring.

NISAR, a joint project between NASA and ISRO, is described as a radar imaging mission specifically designed to map the Earth's land and ice to aid in climate monitoring.

4. When was the SpaceX Crew-11 mission successfully launched to the International Space Station?

- a) July 31, 2025
- b) August 1, 2025
- c) August 2, 2025
- d) The mission has been indefinitely postponed.

Answer: b) August 1, 2025

The news states that the mission was postponed from July 31st but was successfully launched the next day, on August 1, 2025.

MCQS

1. Why is the total solar eclipse on August 2, 2027, being called the "eclipse of the century"?

- a) It will be the first total solar eclipse of the 21st century.
- b) It will be visible from every continent.
- c) It is the longest period of totality on land in the 21st century.
- d) It will cause the Earth to go dark for a full six minutes.

Answer: c) It is the longest period of totality on land in the 21st century.

The news states the 2027 eclipse is significant because it will have the longest period of totality visible from land in the 21st century, lasting up to 6 minutes and 23 seconds.

2. What is the name of ISRO's 10-day analogue mission in Ladakh?





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5. Which two planets will be in close conjunction in early August 2025, according to the skywatching report?

- a) Mars and Jupiter
- b) Venus and Saturn
- c) Jupiter and Venus
- d) Mars and Venus

Answer: c) Jupiter and Venus

The August skywatching section notes that a close conjunction of Jupiter and Venus is scheduled for August 11th and 12th, 2025.

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