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Space & Astronomy:

Planetary Events & Skywatching

Asteroid Flyby: A notable celestial event is the close flyby of asteroid 2025 QY4. Classified as part of the Aten group of asteroids, this rock, measuring about 180 feet in diameter, will pass Earth at a distance of 2.81 million miles. Although considered a close approach in astronomical terms, experts have emphasized there is no danger of impact.

Planet Visibility: The late August sky presents excellent opportunities for planet viewing. You can see five planets with the naked eye or binoculars. In the morning sky, Jupiter, Venus, and Mercury are visible before sunrise. Mars is visible in the evening, while Saturn can be seen throughout the night.

Moon Phase: Today's moon phase is a Waxing Crescent, with approximately 34% of its face illuminated as seen from Earth. The next full moon, known as the "Harvest Moon," will be on September 7.

New Discoveries & Missions

Exoplanet Observation: The James Webb Space Telescope (JWST) has made new observations of the exoplanet system HR 8799, which is about 130 light-years from Earth. Astronomers have confirmed that the four giant planets in this system, which are still warm from their formation, likely formed in a similar way to Jupiter.

Fast Radio Burst: Scientists have traced the brightest known fast radio burst to its origin in the spiral galaxy NGC 4141, a significant

breakthrough that could help explain the nature of these mysterious cosmic flashes.

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MCQS

1. Which group of asteroids does the asteroid 2025 QY4 belong to?

- a) Apollo group
- b) Amor group
- c) Aten group
- d) Atira group

Answer: c) Aten group

The news states that the asteroid 2025 QY4 is "classified as part of the Aten group of asteroids."

2. What is the phase of the moon on August 29, 2025, as mentioned in the report?

- a) Full Moon
- b) Waxing Gibbous
- c) Waning Crescent
- d) Waxing Crescent

Answer: d) Waxing Crescent

The report explicitly states, "Today's moon phase is a Waxing Crescent, with approximately 34% of its face illuminated."

3. Which telescope made new observations of the exoplanet system HR 8799?

- a) Hubble Space Telescope
- b) James Webb Space Telescope (JWST)
- c) Kepler Space Telescope
- d) Spitzer Space Telescope

Answer: b) James Webb Space Telescope (JWST)

The news reports that the "James Webb Space Telescope (JWST) has made new observations of the exoplanet system HR 8799."

4. According to the provided text, which of the following planets are visible in the morning sky before sunrise?

- a) Mars and Saturn

- b) Jupiter, Venus, and Mercury
- c) Mars and Jupiter
- d) Venus and Saturn

Answer: b) Jupiter, Venus, and Mercury

The report states, "In the morning sky, Jupiter, Venus, and Mercury are visible before sunrise."

5. To what cosmic object did scientists trace the brightest known fast radio burst?

- a) A red dwarf star
- b) A supernova remnant
- c) The spiral galaxy NGC 4141
- d) The exoplanet system HR 8799

Answer: c) The spiral galaxy NGC 4141

The news states that scientists "have traced the brightest known fast radio burst to its origin in the spiral galaxy NGC 4141."

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