

SCORE  
(5 pts max)

**ASTRONOMY 2**  
**THIRD HOUR SESSION "H"**  
**ACTIVITY: More Sky Gazer's Almanac & More Moon**

NAME

KEY-H

DATE

ID#

1. Will Mars be above the horizon at 9 pm on April 21 ?

Yes

2. What day will the Lyrids meteor shower peak in activity and from what constellation will it originate?

April 23 ( $\pm 2$  day)

Lyra

3. Give the date when Mars and Mercury are in conjunction with each other.

June 18

4. What day this year will (did) the planet Uranus be at (solar) conjunction?

April 22 ( $\pm 3$  day)

5. On what day in June does Mercury reach "greatest elongation"?

June 23 ( $\pm 1$  day)

6. What time does the Moon rise on April 23 ?

11:25 PM ( $\pm 10$  minutes)

7. On the date given in Question #6, is the Moon waxing or waning?

Waning

8. What phase is the Moon closest to (in terms of days) on the date given in Question #6, New, First Quarter, Full, or Last Quarter?

Last Quarter

9. What is the first day in May that the Moon reaches Perigee ?

May 14 ( $\pm 1$  day)

(Questions continue on back)

Do not use the SGA for the following questions:

10. Where in the sky (rising, high in east, on the meridian, high in the west, setting, not above the horizon) would you expect to see a Full moon at Sunset?

Rising
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11. If we assume that sunset is at 6PM and sunrise is at 6AM, approximately what time would a Third Quarter moon rise?

Midnight
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12. If we assume that sunset is at 6PM and sunrise is at 6AM, which phase of the moon would Set near the time 3 AM?

Waxing Gibbous
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13. Now go the web site <http://www.eclipsewise.com> (select Solar Eclipses). When is the next total solar eclipse that passes through the US? Will the path of totality pass through California?

April 8, 2024	no
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14. From the same website when is the next total lunar eclipse? Can mid-totality be seen in California?

May 26, 2021	Yes
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