

# Moon calendar

name \_\_\_\_\_ hr \_\_\_\_\_

/25

Make the device as instructed here: <https://www.jpl.nasa.gov/edu/learn/project/make-a-moon-phases-calendar-and-calculator/>

1. What phase will the moon be in tonight? \_\_\_\_\_
2. What time will the moon rise? \_\_\_\_\_
3. In what location (N, S, E, or W) will the moon rise? \_\_\_\_\_
4. When will the moon set? \_\_\_\_\_
5. In what location (which cardinal direction) will the moon rise? \_\_\_\_\_
6. What is the date of the next full moon? \_\_\_\_\_
7. What is the moonrise of the next full moon? \_\_\_\_\_
8. What is the moonset of the next full moon? \_\_\_\_\_
9. How many full moons will we have this year in total? \_\_\_\_\_
10. When will we have lunar eclipses? \_\_\_\_\_

## **REFER TO THE TOP DIAL FOR THE NEXT NINE QUESTIONS**

11. When the moon is at 0 degrees (relative to the sun), what phase is it? \_\_\_\_\_
12. 45 degrees? \_\_\_\_\_
13. 90 degrees? \_\_\_\_\_
14. 135 degrees? \_\_\_\_\_
15. 180 degrees? \_\_\_\_\_
16. 225 degrees? \_\_\_\_\_
17. 270 degrees? \_\_\_\_\_
18. 315 degrees? \_\_\_\_\_
19. 360 degrees? \_\_\_\_\_
20. Why does the moon rise in the east and set in the west just like the sun? \_\_\_\_\_  
\_\_\_\_\_
21. Why does the moon have light? \_\_\_\_\_
22. How much of the moon is lit up by the sun at any time? \_\_\_\_\_
23. Why does the moon appear as a crescent shape on some days? \_\_\_\_\_  
\_\_\_\_\_
24. How long does it take for one full cycle of the moon's phases? \_\_\_\_\_
25. Where would you have to be located to see the brightness of the moon during the new moon phase? \_\_\_\_\_  
\_\_\_\_\_