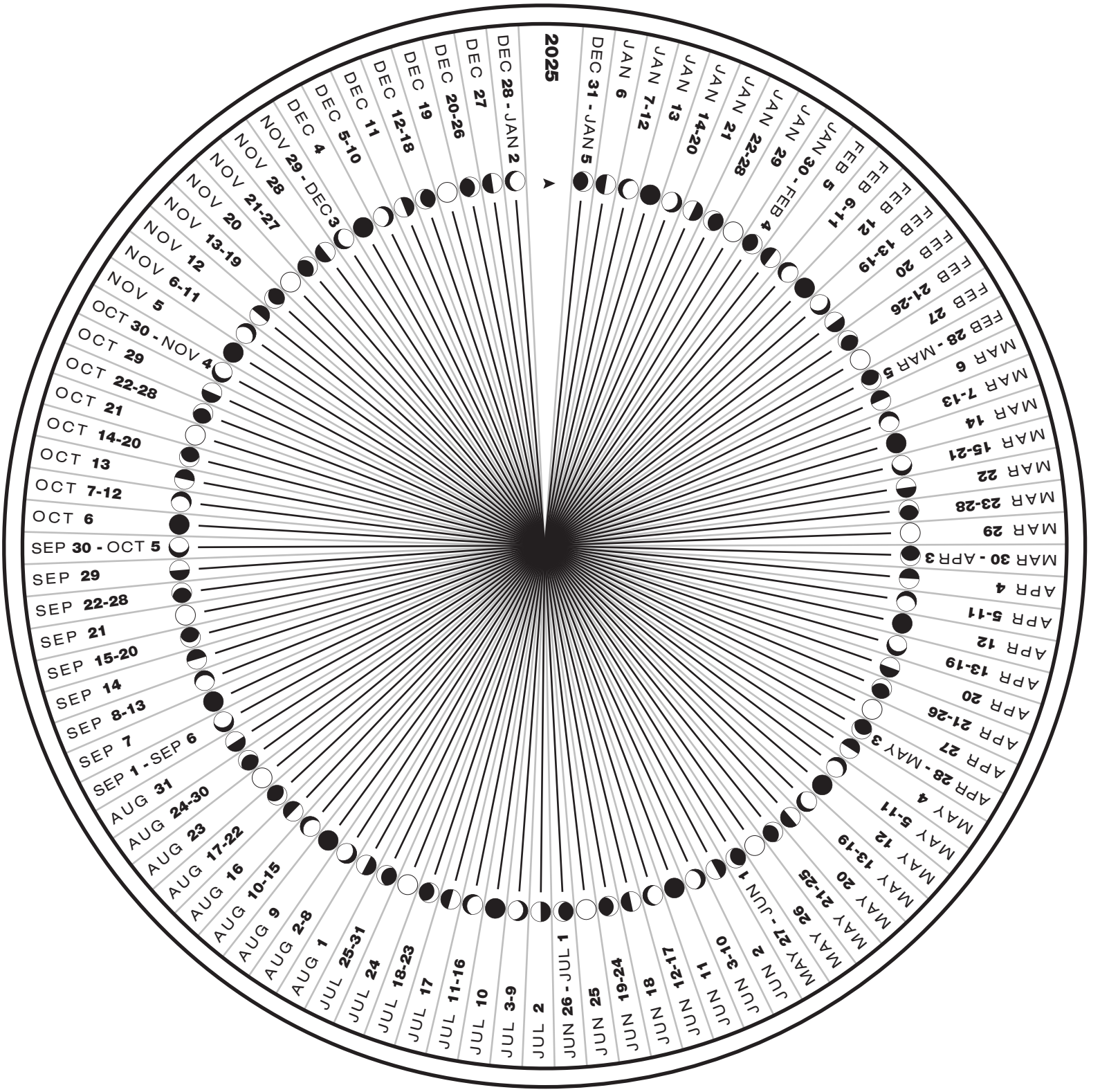
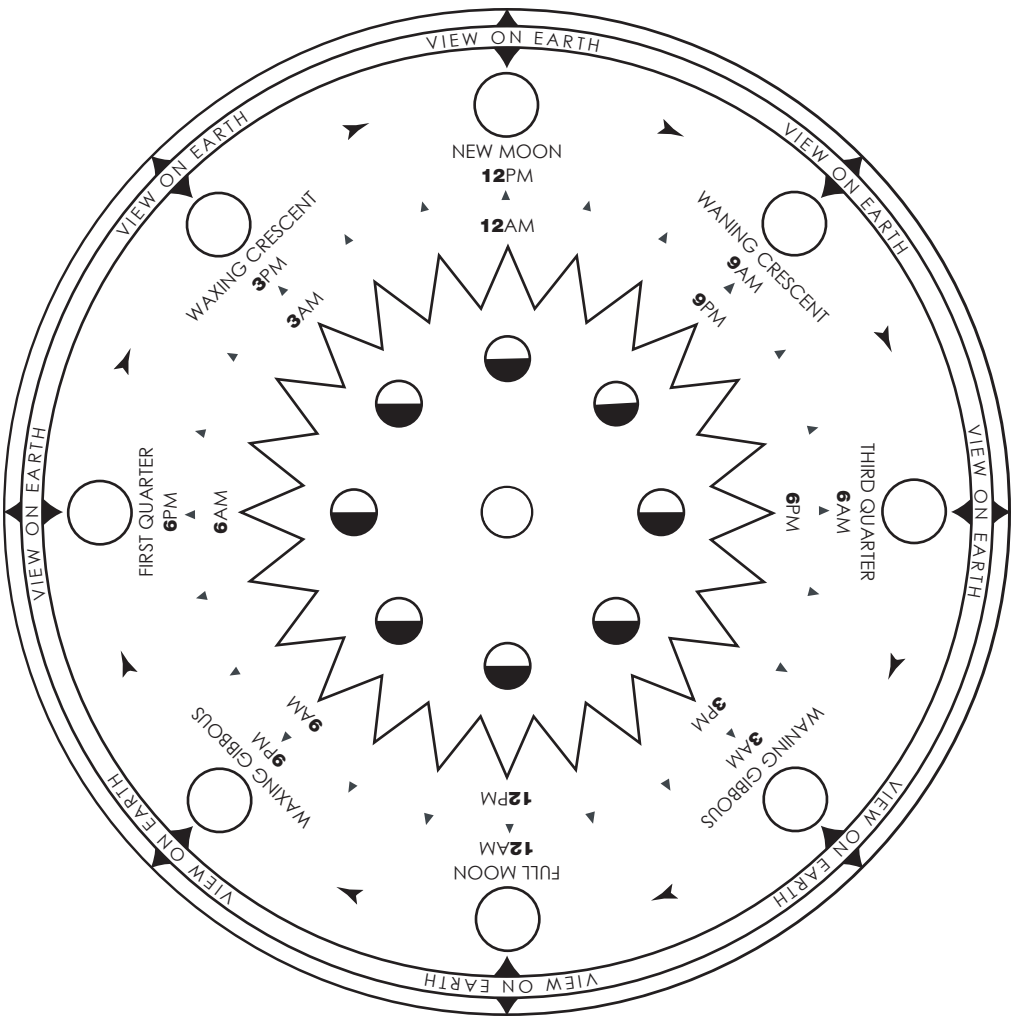
MOON PHASES

2025

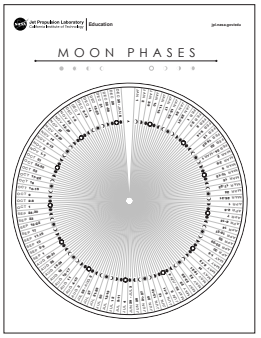


MOONRISE

MOONSET

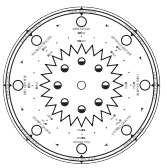


1. Match the Moon Phases Wheel with the moon phase on the calendar
2. See when and where to spot the moon
S
OVERHEAD
VIEW IN SPACE
E
W
ABOVE EARTH'S N. HEMISPHERE
*visibility may vary
2025 MOON EVENTS
MAR 14 Total Lunar Eclipse*
OCT 6 Supermoon
NOV 5 Supermoon
DEC 4 Supermoon
1. NEW MOON 2. WAXING CRESCENT 3. FIRST QUARTER 4. WAXING GIBBOUS 5. FULL MOON 6. WANING GIBBOUS 7. THIRD QUARTER 8. WANING CRESCENT
0°
45°
90°
135°
180°
225°
270°
315°



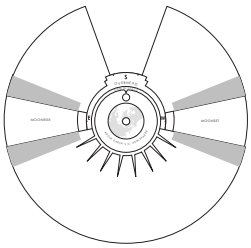
CALENDAR WHEEL

1. Print out (and optionally cut out).



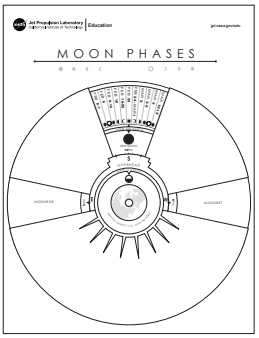
MOON PHASES WHEEL

2. Print and cut out. Follow the instructions on the back to fill in the moon phases.



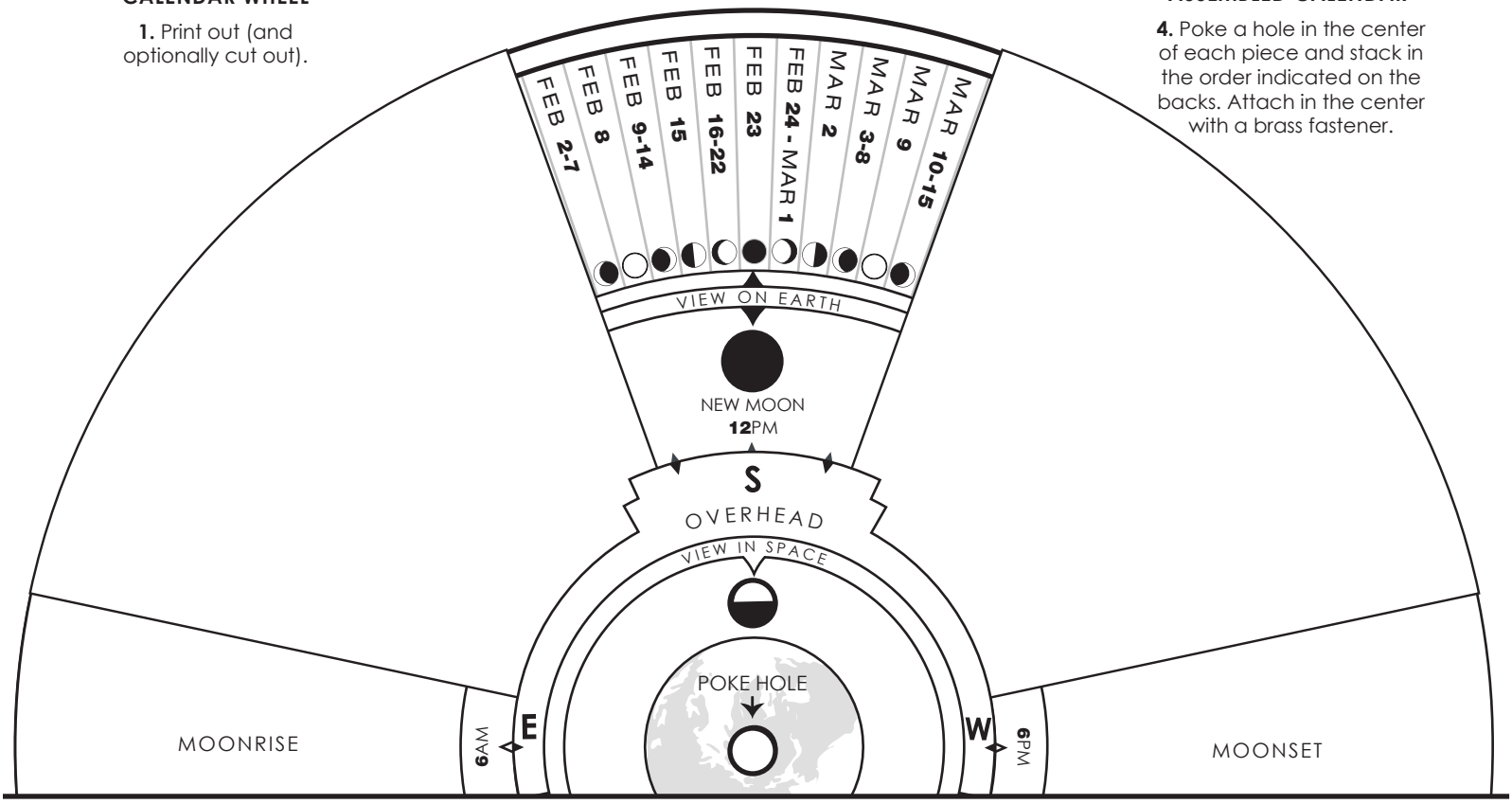
VIEWING WHEEL & PANELS

3. Print. Where indicated on the back, cut out, punch hole and line up moonset/rise panels, attaching with tape.



ASSEMBLED CALENDAR

4. Poke a hole in the center of each piece and stack in the order indicated on the backs. Attach in the center with a brass fastener.



MOON PHASES CALENDAR AND CALCULATOR (N. HEMISPHERE)

HOW TO USE:

Use this moon phases calendar and calculator to find out when moon phases are visible throughout the year and where to spot the Moon in the sky. First, turn the top **Viewing Wheel** to a date or date range for which you would like to know the moon phase and/or viewing location. Then turn the **Moon Phases Wheel** so that the phase on the wheel matches what's pictured on the date you have selected. Be sure the black arrow on the **Moon Phases Wheel** is pointing to the correct date on the **Calendar Wheel**. (Note: The **Calendar Wheel** shows the dates when moon phases occur in the Pacific Time Zone.) Once the wheels are aligned, you will see approximately when (in local standard time) the moon will rise in the east, be overhead while facing south and set in the west for that particular date. In the center of the **Viewing Wheel**, you will also see a view of Earth and the Moon as seen from space, above Earth's Northern Hemisphere.

For more about the Moon, explore these online resources from NASA:

Activities for Students: go.nasa.gov/MoonActivities

Lessons for Educators: go.nasa.gov/MoonLessons

NASA's Moon Website: science.nasa.gov/moon