lame:	Date:

Student Exploration: Moonrise, Moonset, and Phases

Vocabulary: horizon, Moon phase, moonrise, moonset

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

 When is the last day and approximate time of day you recall seeing the Moon?

02/25 9 pm

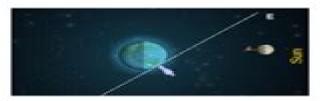
In the space at right, draw what you saw.



2. Does the Moon always rise and set at the same time?

Gizmo Warm-up

The Moon is not always in the same position in the sky at a given time. Sometimes the Moon rises in the early evening, sometimes in the middle of the night, and sometimes during the day. The Moonrise, Moonset, and Phases Gizmo allows you to determine how the Moon phases are related to the timing of moonrise and moonset.



To begin, turn on **Show horizon**. The Gizmo shows Earth, the Moon, and an observer on Earth. The Sun is located far away to the right of Earth. The long white line is the **horizon**.

- Click Play (init). Look at the VIEW OF MOON FROM EARTH pane. What do you see?
 the moon slowly becomes more and more visible each day then becomes less and less each day.
- Click Reset (2) and set the Speed to Slow. Click Play, and then click Pause (21) when the Moon is aligned with the eastern horizon (E).

Look to the upper left. What time is it? 6.48 am. This is the time of moonrise.

3. Click Play and then Pause when the Moon is aligned with the western (W) horizon.

What time is it? 5:36 pm This is the time of moonset.

Moonrise Moonset And Phases Gizmo Answers

AN Whitehead

Moonrise Moonset And Phases Gizmo Answers:

Moonrise, Moonset and Moon Phases for 1975 David J. Novlan, ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N MEX ATMOSPHERIC SCIENCES LAB., 1974 Contents Times of moonrise moonset and moon phases at WSMR in 1975 Use of solar lunar charts and declination tables Solar altitudes and azimuths Base for plotting lunar altitudes and azimuths The celestial sphere Equinoxes and solstices 1975 Light curve of the moon Illumination due to the moon Times of sunrise and sunset and beginnings and endings of civil nautical and astronomical twilight Times of moonrise moonset and Moonrise, Moonset and Moon Phases for 1976 Darl G. McCullough, ARMY ELECTRONICS moon phases for 1975 COMMAND WHITE SANDS MISSILE RANGE N MEX ATMOSPHERIC SCIENCES LAB., 1975 Contents Times of Moonrise Moonset and Moon Phases at WSMR in 1976 Equinoxes Solstices and Declination Tables Figure 1 Celestial Sphere Figure 2 Illumination Due to the Moon Table I Times of Sunrise and Sunset and Beginnings and Endings of Civil Nautical and Astronomical Twilight Times of Moonrise Moonset and Moon Phases for 1976 According to Months Moonrise. Moonset and Moon Phases for 1973 George M. Fugate, Lamar Newman, ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N MEX ATMOSPHERIC SCIENCES LAB., 1972 Contents Times of moonrise moonset and moon phases at White Sands Missile Range Use of solar lunar charts and declination tables Equinoxes and solstices 1973 Illumination due to the moon Times of moonrise moonset and moon phases for 1973 Moonrise, Moonset & Moon Phases for 1972, White Sands Missile Range George M. Fugate, White Sands Missile Range (N.M.). Atmospheric Sciences Laboratory, 1972 Moonset and Moon Phases for 1974 at White Sands Missile Range Including Daily Declinations and Percent Illuminated, and Times of Eclipses, Equinoxes and Solstices, with Condensed Tables of Sunrise-Sunset Times and Beginnings and Endings of Twilight George M. Fugate, Lamar Newman, ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N MEX ATMOSPHERIC SCIENCES LAB., 1973 Contents Times of moonrise moonset and moon phases at WSMR in 1974 and use of solar lunar charts and declination tables Computing Worldwide Sunrise, Sunset, Moonrise, Moonset and Twilight Times Using 5 WWPs 105-3 and 105-4 K. W. Hertzler, WEATHER WING (5TH) LANGLEY AFB VA., 1984 This technical note describes a technique which permits calculation of times of sunrise sunset moonrise moonset and the twilights The technique requires the use of 5WW Pamphlets 105 3 and 105 4 as a data source

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