

Lecture 7

Learning Goals:

By the end of class today you should be able to ...

- Recognize the phases of the Moon
- Explain why we see the Moon go through phases
- Give the time each lunar phase will rise, set, and be high in the sky

Reading for Today: Unit 8.1

Reading for Next Monday: 8.2, 8.3

Lunar phases

How does the moon's position in its orbit affect its phase?

- In addition to changing phases, the time and location of the moon in the sky will change over the lunar cycle.
- As the Moon orbits the Earth, it progressively rises and sets about 50 minutes later each day.

When is the Moon up in the Sky?

Example

- What time would a full Moon rise?
When would it be at its highest in the sky? When would it set?
- Assume sunset is around 6pm.

→ Draw a picture