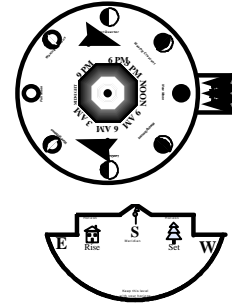


# LOWELL OBSERVATORY

## MOON CLOCK



**OBJECTIVE:** The moon clock will allow your students to know where the moon is in the sky at any time of day or night once given its phase.

**MATERIALS:** ✓ Scissors  
✓ Brads

- PROCEDURE:**
1. Cut out both parts of your moon clock.
  2. Place your direction finder (portion with E, S, and W) on top of your moon phase cutout. Place a brad through the ⊕ for both parts at once.
  3. Hold your moon clock so that the direction finder portion has the words horizon right side up, or make sure the house and tree are upright. This portion of the moon clock represents the ground at your feet.
  4. Review the phase of the moon for the day of the activity (*consult your daily newspaper.*) Place that phase of the moon directly above the south (S) arrow on your direction finder. Read the time above the arrow, and check that all the students have the same time. The time shown is when that phase of the moon will be highest in the sky. Note the position of the sun. Is it day or night? If the sun is below the horizon line it is night.
  5. Place the phase of the moon so it is above the letter E. E represents the eastern horizon. Now read the time above the South (S) arrow. This is the time that particular phase of the moon will rise. Repeat this step for the W. This represents when the moon will set.

