## Notes: Fill-In-The-Blank

## Phases of the Moon

- only half the moon is lit at one time by the sun
- phases depend on how walk of that lit side of the moon we can actually See
- depends on the angles / positions of the Earth, moon and sun
- moon takes 27 and 1/3 days to proof Earth, Earth spins on axis once every hours
- phases are NOT the Earth casting its shadow on the moon!
- i.e. a new moon is only "visible" during the dry (we are "seeing" the dark side only)
  a full moon is only visible at night (rises as the sun sets, sets as the sun rises), we are seeing the entire | side
- note: the moon's orbital plane is inclined 5 degrees to our orbital plane around the sun, that is why we don't see eclipses normally, just phases
- note of interest: moon's rotation takes as long as revolution so the Same side always faces Earth! (always see the "man in the moon")

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