

Phases of the Moon

- only _____ the moon is lit at one time by the sun
 - phases depend on _____ of that lit side of the moon we can actually _____
 - depends on the _____ of the Earth, moon and sun
 - moon takes 27 and 1/3 days to _____ Earth, Earth spins on axis once every ___ hours
 - phases are _____ the Earth casting its shadow on the moon!
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- i.e. a _____ moon is only "visible" during the _____ (we are "seeing" the _____ side only)
 - a _____ moon is only visible at _____ (rises as the sun sets, sets as the sun rises), we are seeing the entire _____ side
 - note: the moon's orbital plane is inclined ___ 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 _____ always faces Earth! (always see the "man in the moon")

Eclipses

Lunar Eclipse

- when the shadow of the Earth covers the moon
- can only happen near the full moon phase
- happens twice a year
- entire night side of Earth sees it, so we see them more often than a solar eclipse

Solar Eclipse

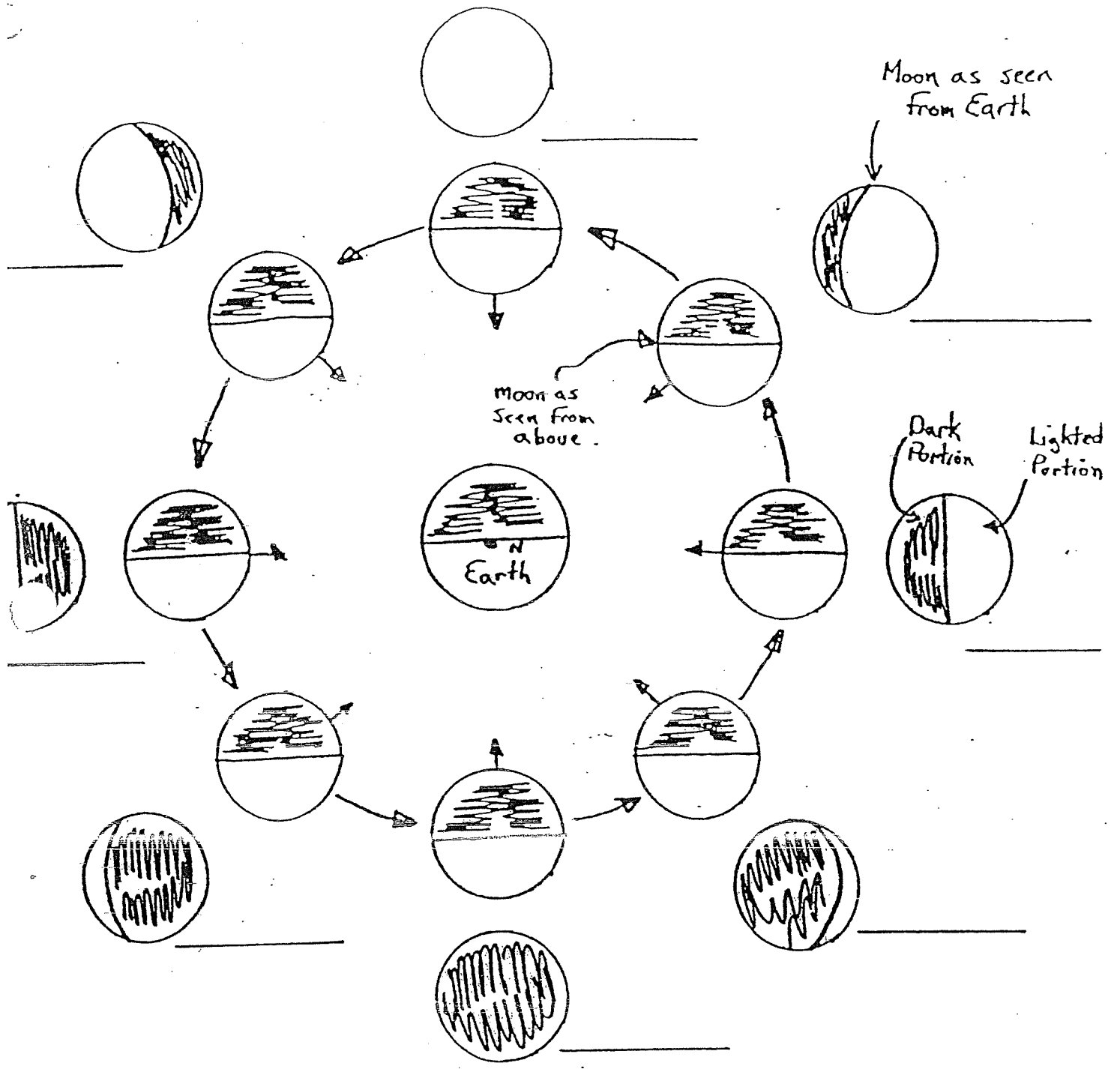
- when the moon blocks the sun from our view
- can only happen near the new moon phase
- happens 2 to 5 times a year
- small shadow, one spot on Earth will only see a full solar eclipse once every 300 years

What happens to stars in the sky as a result of our

rotation (on axis)? - _____ from view temporarily, night turns to day, too light

revolution (around the sun)? - see different stars (different ones on each _____ of sun), the dippers, etc. are always there because they are more _____ the solar system rather than beside

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↑↑↑↑↑ Sunlight