

# How Do Earth and Its Moon Move?



# Everyday the sun appears to...

**Rise in the East**

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**Set in the West**

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This cycle occurs because Earth rotates,  
or spins on its axis ([link](#)).



# axis

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An imaginary line that extends through both poles of a planet



One full rotation takes 24 hours.



Due to long distance travel beginning in the late 1800's standard times were needed.

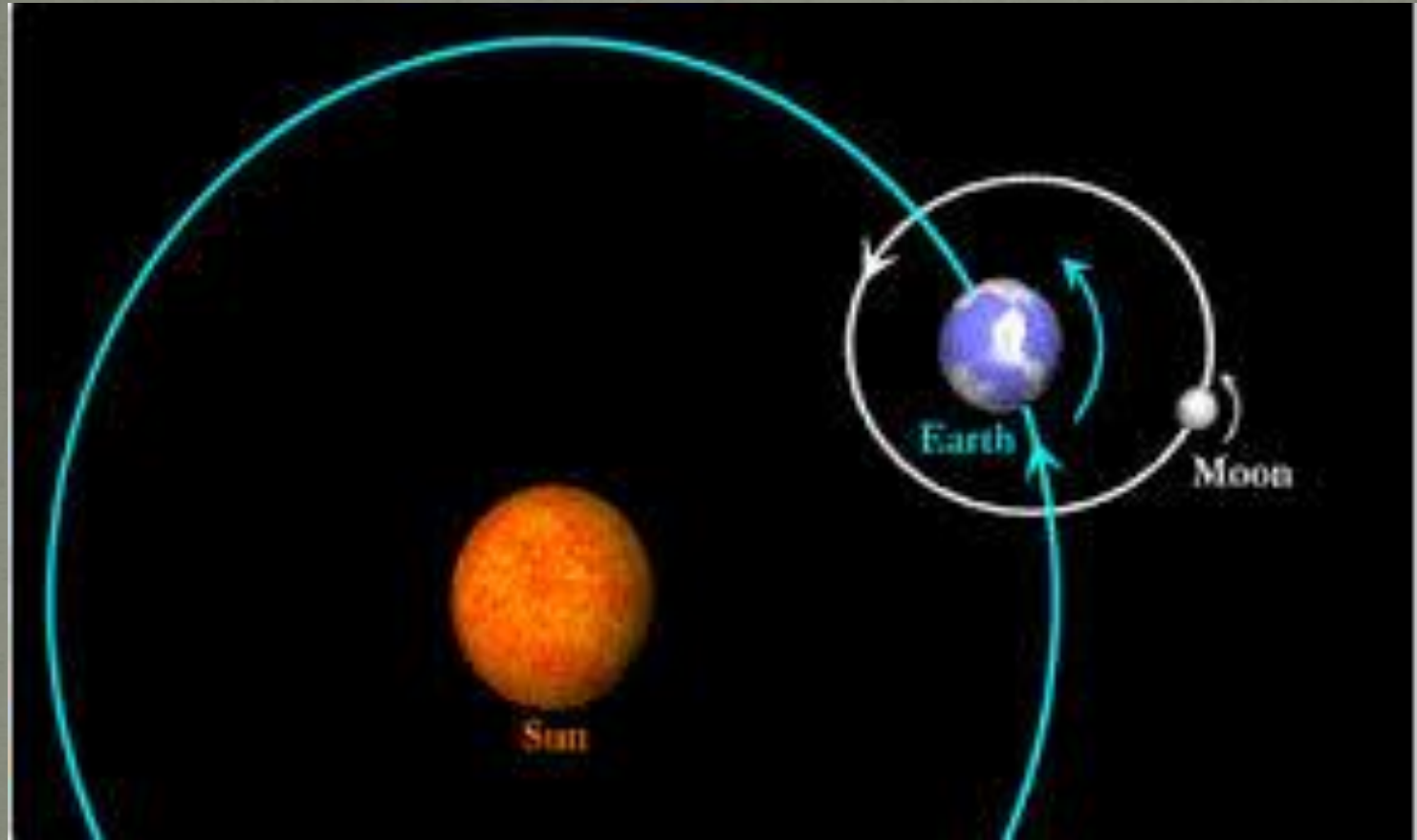


STANDARD TIMEZONES IN THE USA





In addition to rotating on its axis, Earth revolves around the sun ([link](#)).



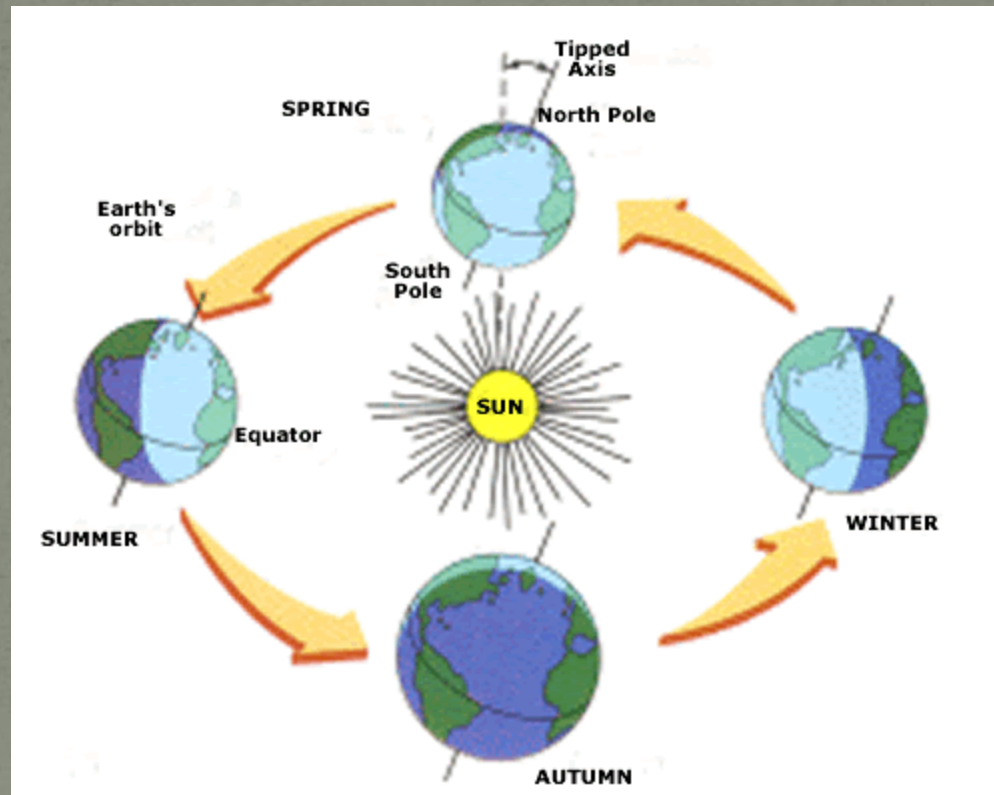
revolve

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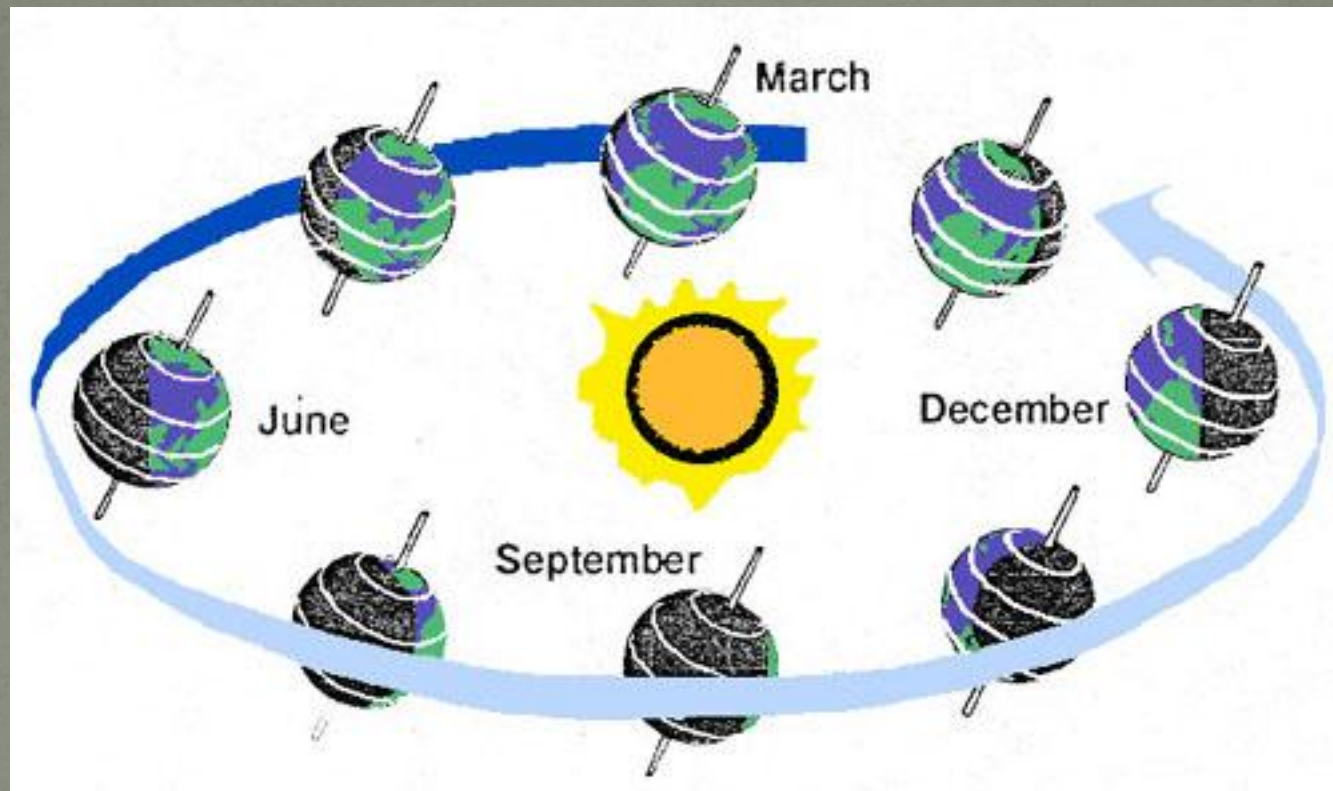
To orbit around an object



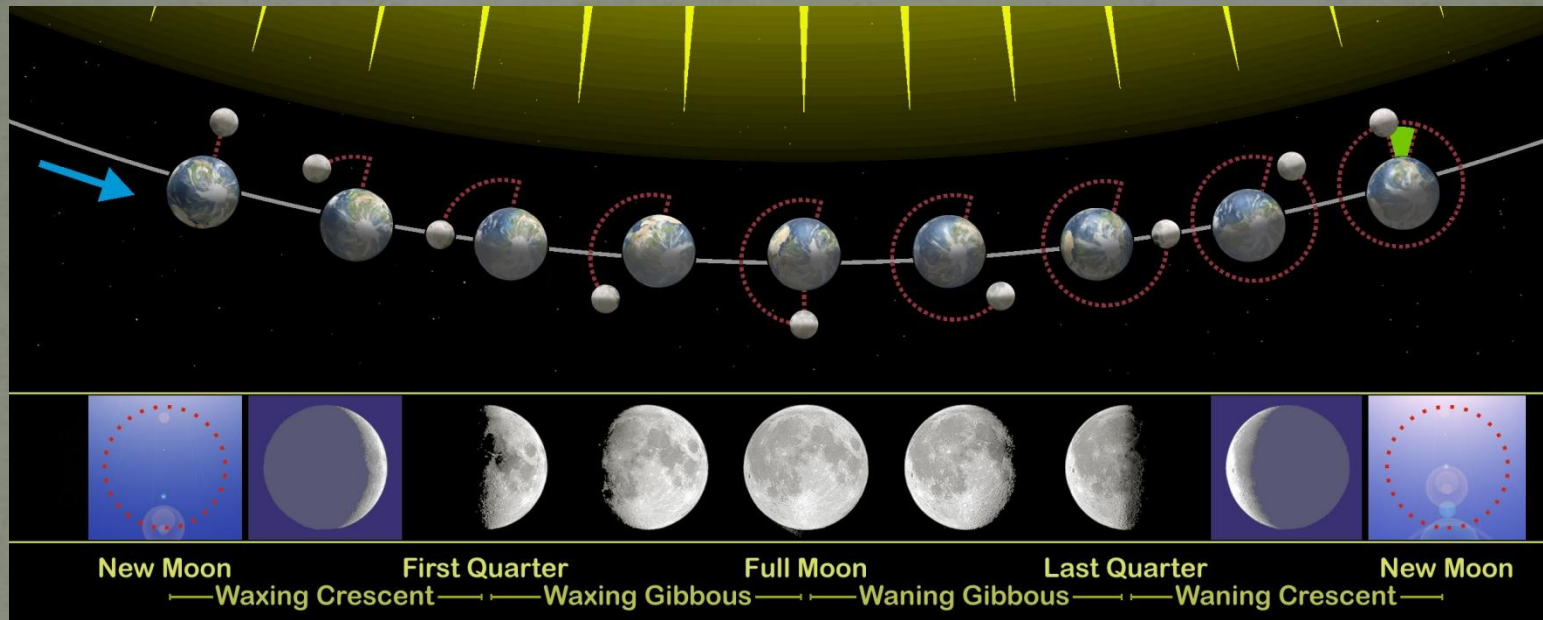
One full revolution takes about 365 days.



Our seasons are due to Earth's tilt.



The moon appears to shine, but it is actually reflected light from the sun.

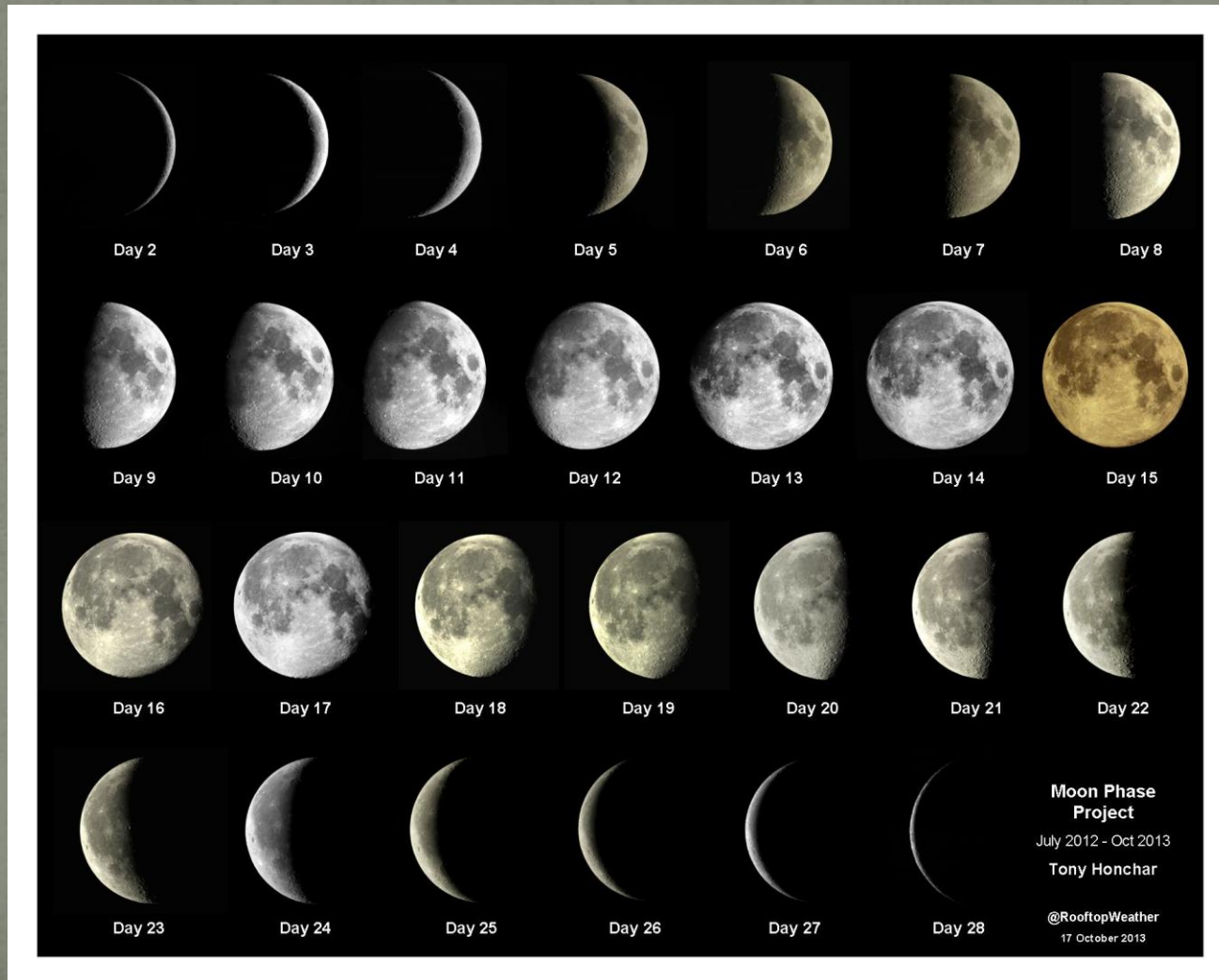




As the moon revolves around Earth, different amounts of its lit surface can be seen.

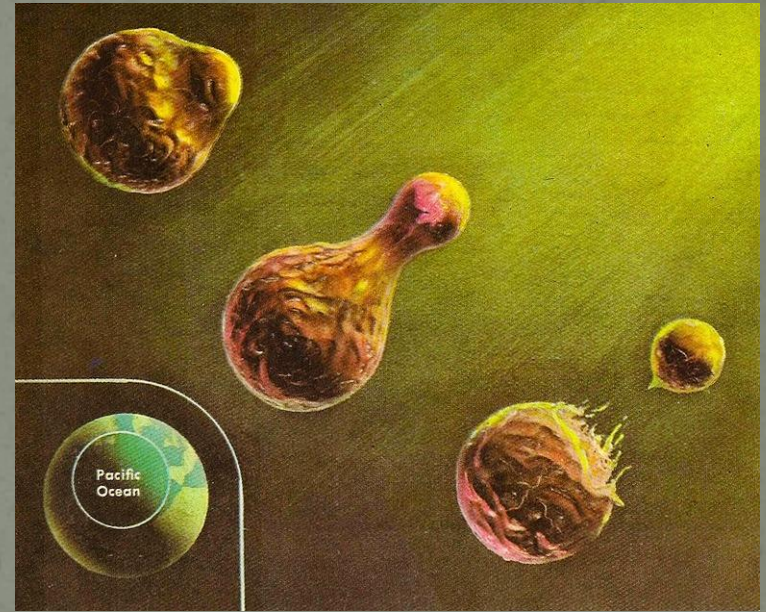


The phases of the moon follow the same pattern about every 29 days.





# Competing theories about how the moon formed.





Many theories exist, but no one actually knows how the moon was formed.

