

The figure above ilustrates the Moon and Earth iluminated by the Sun and represents one trip of the Moon around Earth. The Moons orbit is seen from far above the North poles.

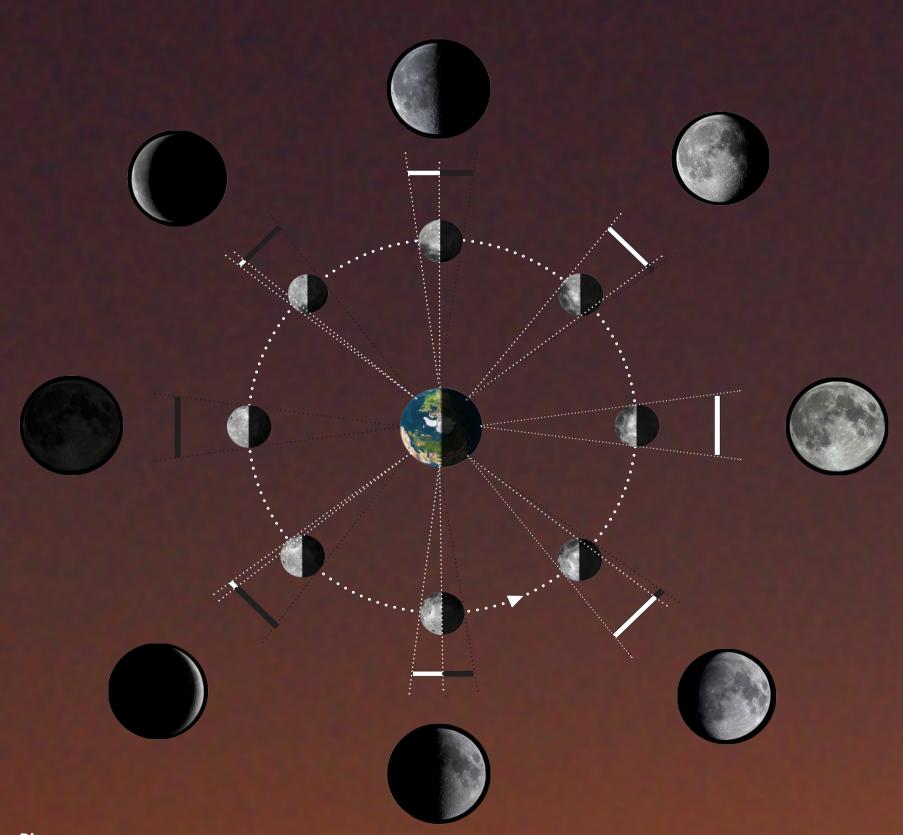
surface features. Our Moon rotates once on its own axes the same time it takes one full orbit Figures are not to scale.

around Earth. That is why we Earthlings allways see the same face of the Moon.

Seen from above onto the North poles, Earth and Moon rotate counterclockwise on their own Note the Moons dark and bright axes. They also orbit in the same direction.



Moon and Earth from space imaged by the Mariner 9 spacecraft, showing the daylit sides facing our Sun and night sides on both planetary



Phases

to the left.

Looking from Earths surface we moon figure). can see diferent parts of the dark and the day side of our Moon, depending on the position in its orbit.

With the Moon positioned exactly Moon and Full Moon). between the Sun and Earth, we The waning phases from Full the Moon. For us, this is New Moon during night times and early in the of time. (most left moon figure).

Half of the Moons body is allways Half an orbit later, it is Earth sitting The ilustration above shows the bathed in sunlight while it orbits between the Sun and the Moon. sunlit Moon during a few key around the Earth. For the above Looking at the Moon will show the positions on its orbit around Earth. figure, the Sun would be far away whole surface bathed in sunlight, The dotted lines follow our line of it is time for Full Moon (most right sight to the Moon and help clarify

> Between this two extremes, we can see the waxing moon phases, which are easily observed It takes 29,53 days from one New shortly after sunset (between New Moon to the next New Moon.

morning before sunrise.

what parts and how much of the sunlit and night side of the moons surface is facing us.

Ancient calendars were based on this lunar cycle. Our months look directly at the dark side of Moon to New Moon are visible length is a remnant of this dvision

We managed to shoot the Moon





