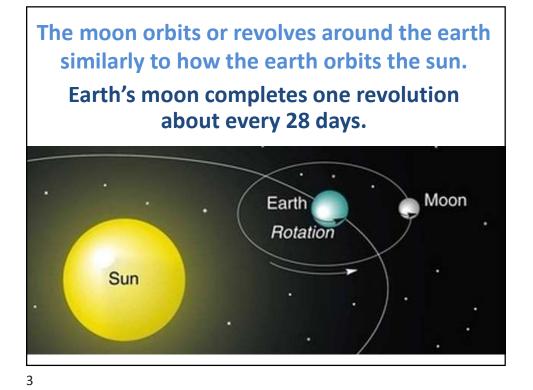
## Lesson 4: Phases of the Moon





Even though we often see the moon illuminated in the night sky, the moon does not produce light like the sun does.

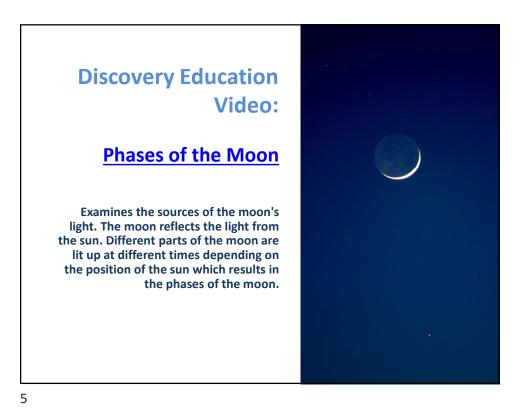
The light that we see from the moon is actually the sun's light being reflected by the moon's surface.

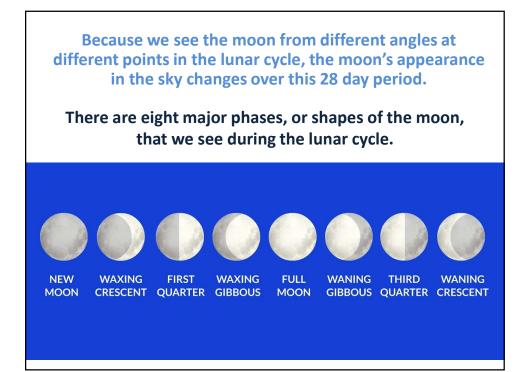




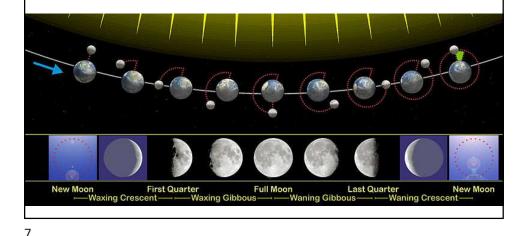
As the moon orbits the earth, its appearance in the

This cycle of changes over the course of one revolution is called a lunar cycle.





Even though the sun always illuminates half of the moons surface, just like it does Earth's, we see different amounts of this illuminated portion at different points in the lunar cycle.





During the first half of the lunar cycle as more of the illuminated surface of the moon becomes visible, we say that the moon is waxing.

During the second half of the lunar cycle as less of the illuminated surface of the moon becomes visible, we say that the moon is waning.

