

The Moon



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Review

Rotation: The spinning of the moon on its axis

Orbit: The spinning of the moon around the Earth

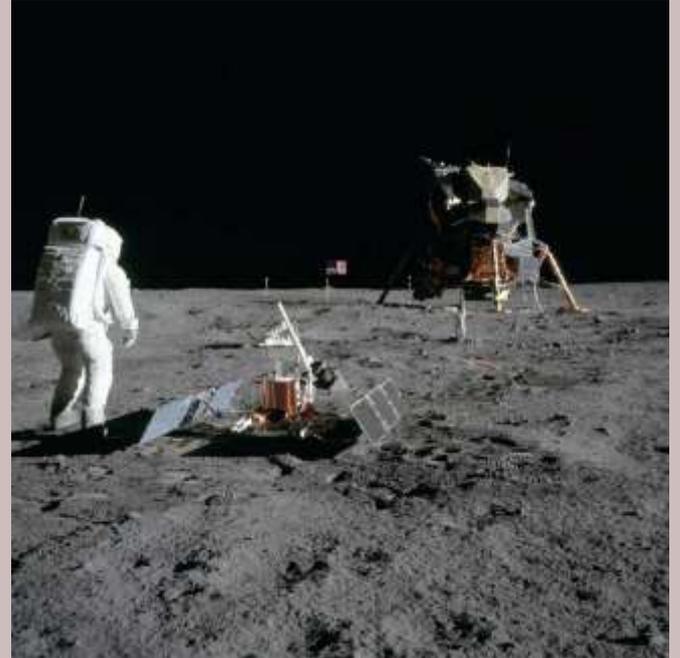
Gravity: The **gravitational pull** that exists between the Moon and the Earth keeps the moon “**trapped**” in its orbit

How long does it approximately take the moon to orbit around the earth and to complete one rotation?

- **27 days** for both

The moon has **no liquid water** and **no atmosphere**.

The surface of the moon is covered in **dust**.



Facts about the Moon

The moon does not make its own light, it **reflects** the light of the sun.

The moon is smaller than the sun, but appears to be a similar size because it's **closer** to the Earth.

The moon is **4.53 billion** years old.

The gravitational pull and forces that exist between the Sun, Moon, and Earth affects the **tides**, creating the rising and falling of ocean levels on Earth.

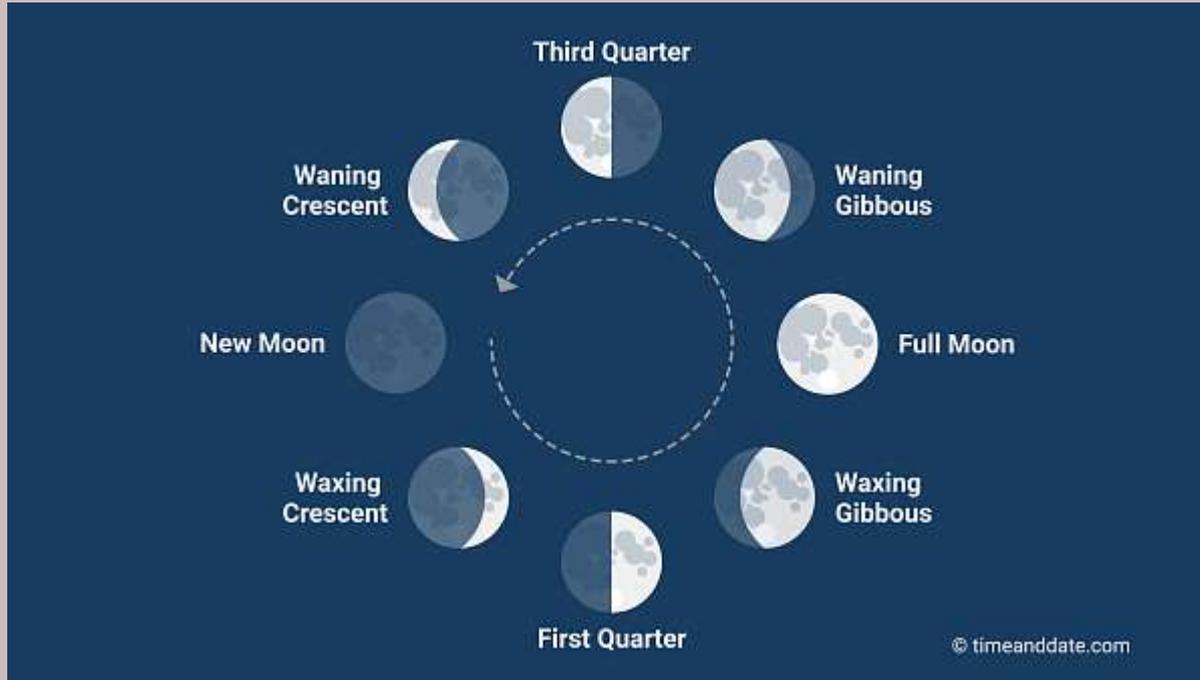


There are Eight Phases of the Moon

1. New Moon
2. Waxing Crescent Moon
3. First Quarter Moon
4. Waxing Gibbous Moon
5. Full Moon
6. Waning Gibbous Moon
7. Last Quarter Moon
8. Waning Crescent Moon



Phases of the Moon



Las fases de la luna



The Phases of the Moon

As the moon orbits the Earth, we can see a different amount of the moon is lit by the sun from our perspective on Earth.

Sometimes, the moon is completely lit, and other times it is completely dark.

The illuminated shape of the moon that is visible from Earth is called a *phase*. When you cannot see the moon at all, this phase is called a *new moon*. Several days after a new moon, we see the moon as a thin sliver of light called the *crescent moon*. As the moon appears larger and larger, it becomes a *quarter moon* and *gibbous moon*. A *full moon* is visible when the whole side of the moon facing Earth is completely illuminated by the sun. On a clear night, a full moon looks very bright.



<https://www.youtube.com/watch?v=HdKwpPxNgXk>