

Phases of the Moon

Unit Study





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Source: https://en.wikipedia.org/wiki/Planetary-mass_moon

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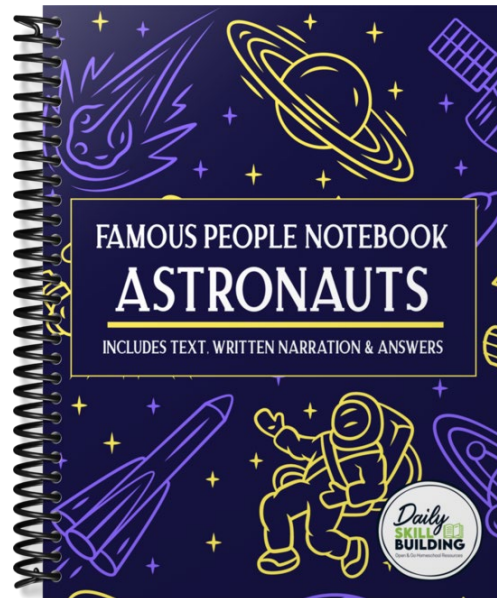
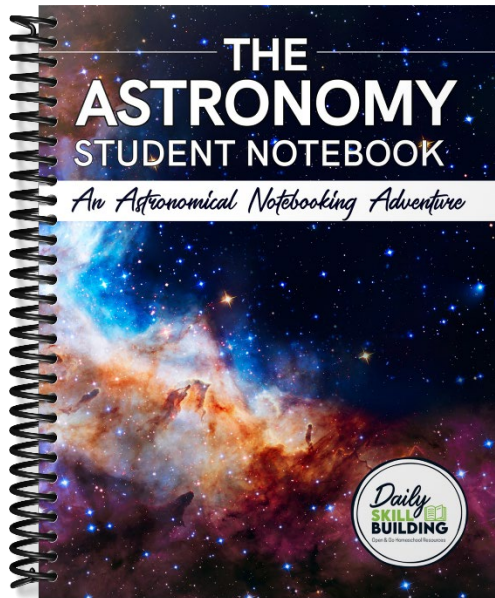
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Daily Skill Building Recommended Resources

Easy-to-Use, Open & Go Homeschool Resources
That Make Homeschooling Easier!



[The Astronomy Student Notebook](#)

Using a combination of written narration, drawing, & labeling, The Astronomy Student Notebook will take your student on a journey into our amazing universe. Students will study the heavenly bodies and ponder the mysteries and marvels of the sun, planets, moon, stars, and more.

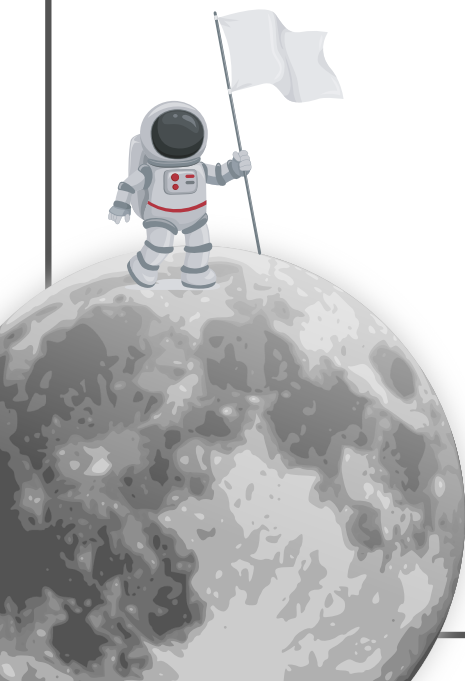
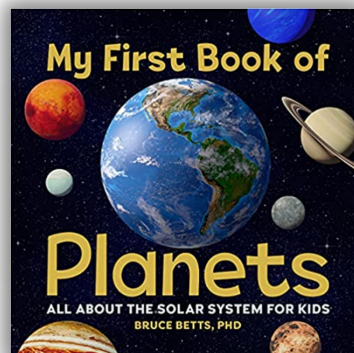
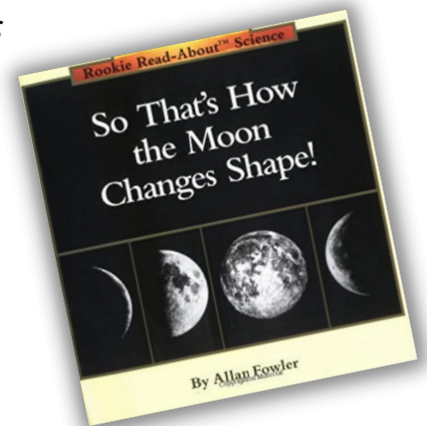
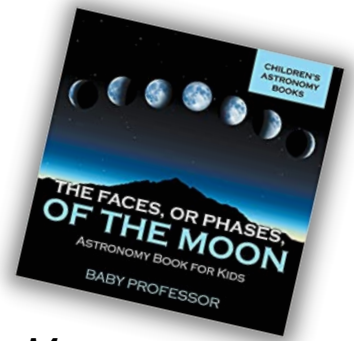
[Famous People Notebook: Astronauts](#)

Famous People Notebook: Astronauts launches your child into an engaging study on famous astronauts and space missions in an easy to use and effective format. Each lesson provides background of an astronaut or space mission followed by open-ended questions to encourage critical thinking. Through written narration your child will explore space reading about Alan B. Shepard, Jr, John H. Glenn, Jr., Neil Armstrong, Edwin (Buzz) Aldrin, and MORE!

dailyskillbuilding.com

Book List

- *The Faces, Or Phases, of the Moon*
- *Moon (First Step Nonfiction — Space)*
- *So That's How the Moon Changes Shape!*
- *The Moon Book*
- *Moongazing: Beginners Guide to Exploring the Moon*
- *Follow the Moon Home: A Tale of One Idea, Twenty Kids, and a Hundred Sea Turtles*
- *A Moon of My Own: A World Travel Book for Kids*
- *Next Time You See the Moon*
- *The Usborne Book of the Moon*
- *The Moon: 60 Fascinating Facts For Kids*
- *The Moon is Always Round*
- *Moon: A Peek-Through Picture Book*
- *Once in a Full Moon*
- *The Moon Seems to Change*
- *My First Book of Planets*
- *The Book of the Moon: A Guide to Our Closest Neighbor*



The Moon

The Moon is Earth's only natural satellite. The Moon is a planetary-mass object that formed a differentiated rocky body, making it a satellite planet under geophysical definitions of the term. It lacks any significant atmosphere, hydrosphere, or magnetic field. Its surface gravity is about one-sixth of Earth's.

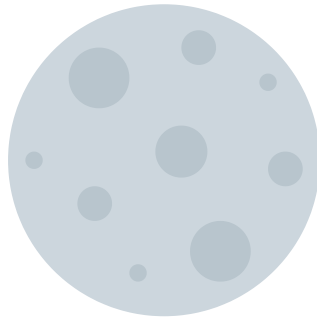
The Moon is tidally locked to Earth, which means that the length of a full rotation of the Moon on its own axis causes its same side (the near side) to always face Earth.

Both the Moon's prominence in the earthly sky and its regular cycle of phases have provided cultural references and influences for human societies throughout history. Such influences can be found in language, calendar systems, art, and mythology.

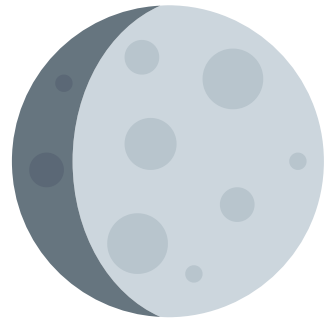
The first artificial object to reach the Moon was the Soviet Union's Luna 2 uncrewed spacecraft in 1959; this was followed by the first successful soft landing by Luna 9 in 1966. The only human lunar missions to date have been those of the United States' Apollo program, which landed twelve men on the surface between 1969 and 1972.



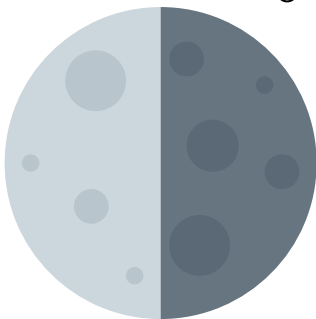
Moon Phases



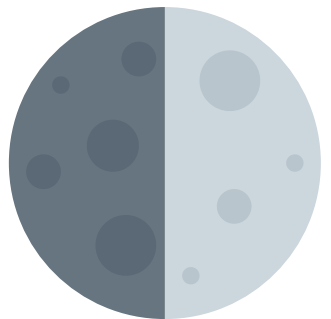
Full Moon



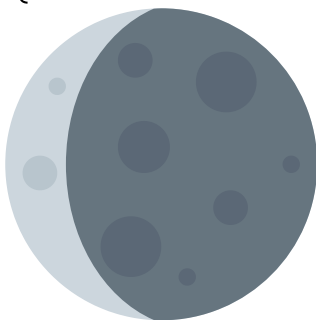
Waxing Gibbous



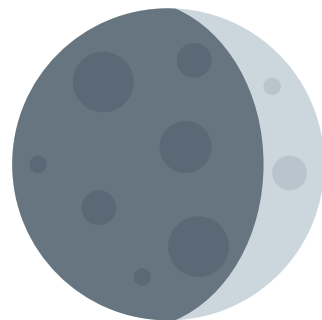
Third Quarter



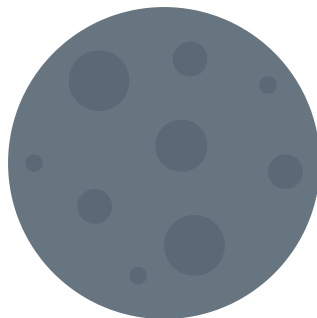
First Quarter



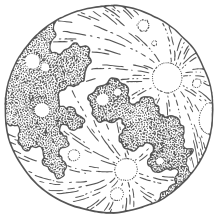
Waning Crescent



Waxing Crescent



New Moon



Full Moon

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The Full Moon is when the Sun and the Moon are aligned on opposite sides of Earth, and 100% of the Moon's face is illuminated by the Sun. The Moon is in constant motion around the Earth, so the Full Moon only lasts for an instant of time.



Waxing Gibbous

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The Waxing Gibbous is an intermediate phase of the Moon that starts right after the First Quarter when the illumination is 50%. The name Gibbous comes from the Moon's shape, which is less than a Full Moon but more extensive than the Third Quarter.



First Quarter

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The 1st Quarter Moon is a primary Moon phase when we can see exactly half of the Moon's surface lit up. Which half depends on where you are on Earth.



Waxing Crescent

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The Waxing Crescent Moon starts as the Moon becomes visible again after the New Moon conjunction, when the Sun and Earth are on opposite sides of the Moon. It moon shines in the west after sunset.



New Moon

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The Full Moon is when the Sun and the Moon are aligned on opposite sides of Earth, and 100% of the Moon's face is illuminated by the Sun. The Moon is in constant motion around the Earth, so the Full Moon only lasts for an instant of time.



Waning Crescent

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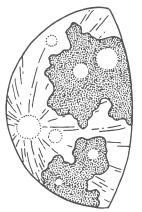
The new moon is the first lunar phase, when the Moon and Sun have the same ecliptic longitude. At this phase, the lunar disk is not visible to the unaided eye, but its presence may be detected because it occults stars behind it.



Third Quarter

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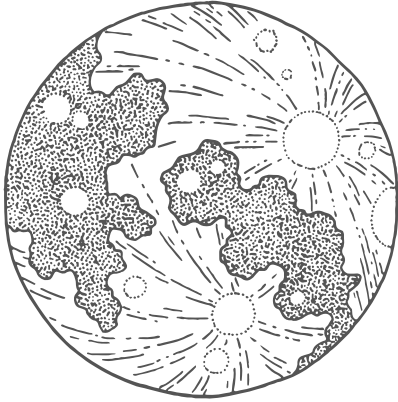
The Third Quarter Moon is when the opposite half of the Moon is illuminated compared to the First Quarter. Which half you see lit up depends on where you are on Earth. The Third Quarter Moon is the last of the four primary Moon phases.



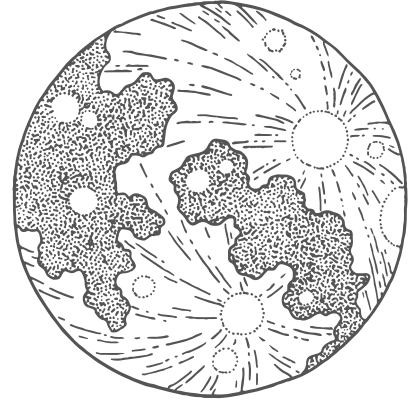
Waning Gibbous

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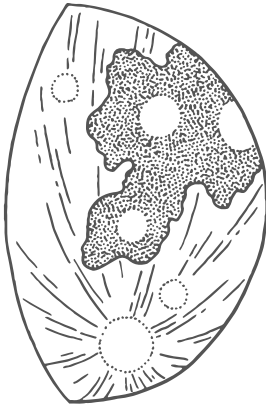
The Waning Gibbous is an intermediary Moon phase. It starts right after the Full Moon, and it lasts until the Third Quarter. When the Moon is in the Waning Gibbous phase, the sunlit part of the Moon is decreasing from 99.9% to 50.1%.



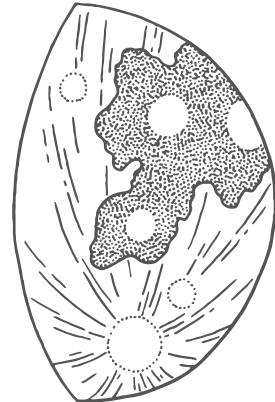
Full Moon



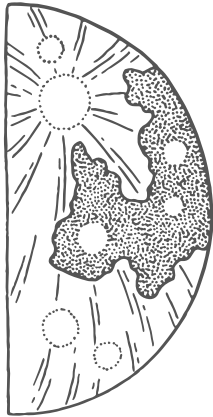
Full Moon



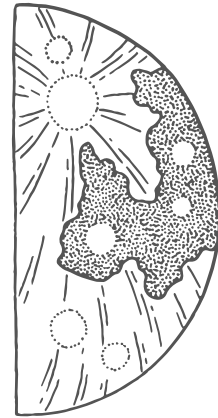
Waxing Gibbous



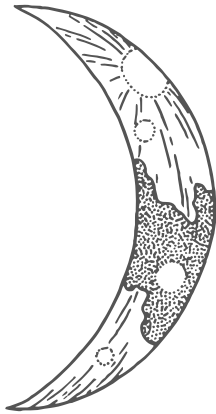
Waxing Gibbous



First Quarter



First Quarter



Waxing Crescent



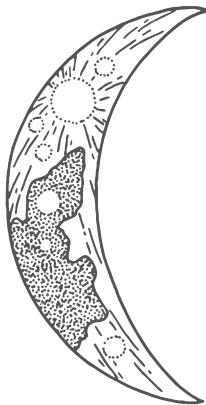
Waxing Crescent



New Moon



New Moon



Waning Crescent



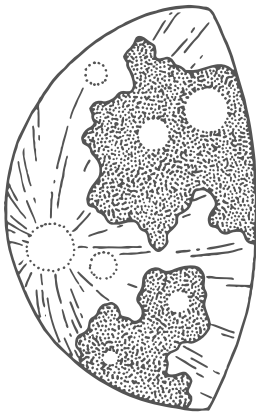
Waning Crescent



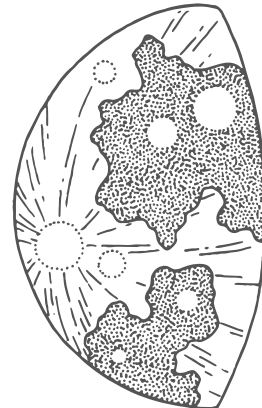
Third Quarter



Third Quarter



Waning Gibbous



Waning Gibbous

'The Moon was but a chin of gold'

- Emily Dickinson

The Moon was but a Chin of Gold
A Night or two ago—
And now she turns Her perfect Face
Upon the World below—

Her Forehead is of Amplest Blonde—
Her Cheek—a Beryl hewn—
Her Eye unto the Summer Dew
The likest I have known—
Her Lips of Amber never part—
But what must be the smile
Upon Her Friend she could confer
Were such Her Silver Will ...

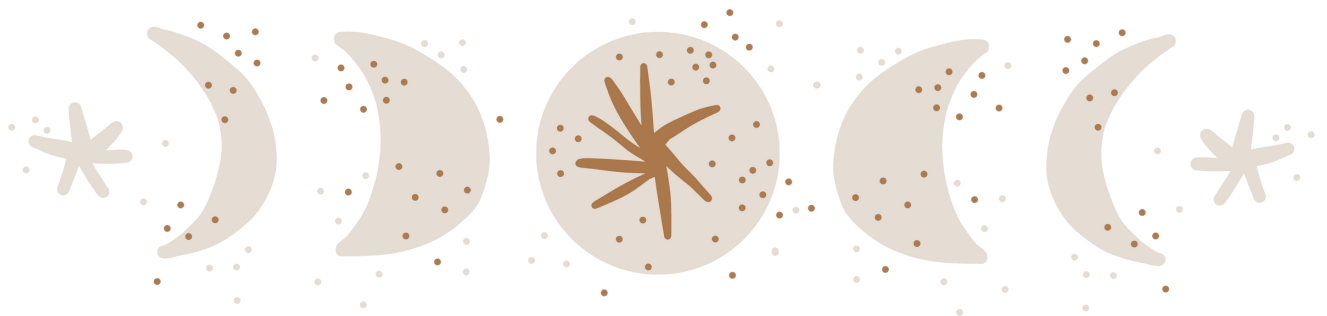


'At a Lunar Eclipse'

- Thomas Hardy

Thy shadow, Earth, from Pole to Central
Sea,
Now steals along upon the Moon's meek
shine
In even monochrome and curving line
Of imperturbable serenity.

How shall I link such sun-cast symmetry
With the torn troubled form I know as
thine,
That profile, placid as a brow divine,
With continents of moil and misery?





Three horizontal lines for handwriting practice: a solid top line, a dashed middle line, and a solid bottom line.

Twelve sets of horizontal lines for handwriting practice, each consisting of a solid top line, a dashed middle line, and a solid bottom line.

[illegible]

Draw the Phases

