

CELESTIAL CALENDAR

2025

A glowing blue and white arc representing the horizon of the Earth, curving across the bottom half of the page.

HELLO ASTRONOMERS!

Space India presents this yearly calendar covering all the major astronomical events that one can witness from the Indian subcontinent. Astronomers all around the world can also record and capture these events along with beautiful astrophotographs. You can also capture and share your photos with us.

MAJOR ASTRONOMICAL EVENTS



Conjunction

When the Moon or a planet appears especially close either to another planet or to a bright star. Also used when, Moon or Planetsometimes is close to bright Deep sky objects



Eclipse

An event that occurs when the shadow of a planet or moon falls upon a second body.



Elongation

The angular distance the Moon or a planet is from the Sun. The inner planets of Mercury and Venus are best seen when at maximum elongation, and thus are highest above the horizon before sunrise or after sunset.



Equinox

The two times each year, near March 20th and September 22nd, when the Sun is directly overhead at noon as seen from Earth's equator. On an equinox date, day and night are of equal length.



Solstice

The two times each year, around June 20th and December 21st, when the Sun is farthest north or south in the sky. At the summer solstice, the day is longest and the night is shortest, and vice versa at the winter solstice.



Meteor Shower

An increase in meteor activity at certain times of the year due to Earth passing through a stream of particles along a comet's orbit around the Sun.



Occultation

When the Moon or a planet passes directly in front of a more distant planet or star.



Opposition

When a planet or asteroid is opposite the Sun in the sky. At such times, the object is visible all night - rising at sunset and setting at sunrise.



Full Moon

A Full Moon Occurs When The Entire Face Of The Moon Is Fully Illuminated By The Sun. Its Monthly Names, Like "Harvest Moon" Or "Wolf Moon," Come From Ancient Traditions Reflecting Seasonal Events Or Folklore.



Transit

A Transit Occurs When A Smaller Celestial Object Passes In Front Of A Larger One, Like Mercury Or Venus Crossing The Sun, Or A Moon Of Jupiter Transiting Jupiter, Revealing Details About Their Size And Orbit.

NOTES

- Elongation Dates Are Based On The Highest Altitude Of The Planet As Seen At Sunset or Sunrise
- Meteor Showers Are Best Observed From Late Evening Until The Early Morning Of The Following Day
- The Lunar Occultation Of Elnath On January 11 Can Be Seen Only In South India (Time: 8:45 PM IST - 10:01 PM IST)
- The Lunar Eclipse On September 7 Will Begin At 8:58 PM IST And End On September 8 At 2:25 AM IST. It Can Be Seen All Over India
- The Planetary Alignment Of The Moon, Venus, Mars, Jupiter, Saturn, Uranus, And Neptune Can Be Seen Throughout The First Half Of February
- Perihelion Is When Earth Is Closest To The Sun In Its Orbit Occurring Around Early January. Aphelion Is When Earth Is Farthest From The Sun In Its Orbit Happening Around Early July, Influencing The Planet's Speed And Seasonal Variations.

 Quadrantids Meteor Shower Jan 3rd - 4th	 Earth at Perihelion Jan 4th	 Venus at Greatest Eastern Elongation Jan 10th	 Lunar Occultation of Elnath Jan 11th	 Wolf Full Moon Jan 14th	 Mars at Opposition Jan 16th	 Close Conjunction of Venus and Saturn Jan 18th	 Planetary Alignment of Moon, Venus, Mars, Jupiter, Saturn, Uranus, Neptune Feb 1th - 13th	 Close Conjunction of Mars and Moon Feb 10th	 Snow Full Moon Feb 12th
 Close Conjunction of Pleiades and Moon Mar 5th	 Worm Full Moon Mar 14th	 Vernal Equinox Mar 20th	 Pink Full Moon Apr 13th	 Mercury at Greatest Western Elongation Apr 21st	 Lyrids Meteor Shower Apr 22nd - 23rd	 Conjunction of Saturn, Venus and Moon Apr 25th	 Close Conjunction of Saturn and Venus Apr 29th	 Mars Transit Beehive Cluster May 4th-6th	 ETA- Aquarids Meteor Shower May 5th-6th
 Flower Full Moon May 12th	 Conjunction of Venus and Moon May 24th	 Venus at Greatest Western Elongation June 1st	 Strawberry Full Moon June 11th	 Summer Solstice June 21st	 Close Conjunction of Pleiades and Moon June 23rd	 Mercury at Greatest Eastern Elongation July 2nd	 Earth at Aphelion July 4th	 Buck Full Moon July 11th	 Delta Aquarids Meteor Shower July 29th-30th
 Sturgeon Full Moon Aug 09th	 Close Conjunction of Venus and Jupiter Aug 12th	 Persids Meteor Shower Aug 12th-13th	 Harvest Full Moon Sep 7th	 Total Lunar Eclipse Sep 7th	 Close Conjunction of Pleiades and Moon Sep 12th	 Saturn Opposition Sep 21st	 Autumn Equinox Sep 22nd	 Neptune Opposition Sep 23th	 Hunter's Full Moon Oct 7th
 Conjunction of Jupiter and Moon Oct 13th	 Orionids Meteor Shower Oct 21st-22nd	 Beaver Full Moon Nov 5th	 Close Conjunction of Pleiades and Moon Nov 6th	 Leonids Meteor Shower Nov 17th - 18th	 Uranus Opposition Nov 21st	 Cold Full Moon Dec 5th	 Geminds Meteor Shower Dec 13th - 14th	 Winter Solstice Dec 21st	 Ursids Meteor Shower Dec 22nd - 23rd

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