

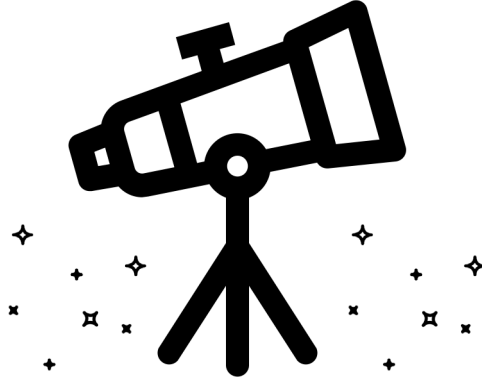
CREDITS and ACKNOWLEDGMENTS

Images:

- Telescope: Space by Jugalbandi from the Noun Project
- Space Transmitter: Space Transmitter by Anatolii Babii from the Noun Project
- Eclipse: Eclipse by Igé Maulana from the Noun Project
- Jupiter: Space by Made by Made from the Noun Project
- Comet: Space by Path Lord from the Noun Project
- Small stars with x stars: stars by Jonas Nullens from the Noun Project
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- Galaxy: Space by Path Lord from the Noun Project



2019 ASTRONOMY EVENTS



Look inside for a list of astronomical events **YOU** can observe!

◆◆◆◆◆ MARCH

- 3/6: New Moon - Excellent for stargazing and night viewing
- 3/21: Full Moon - Super moon occurrence

*Fun fact: A super moon is a full moon that occurs with **perigee**--the closest that the Moon comes to the Earth in its orbit.



◆◆◆◆◆ APRIL

- 4/5: New Moon - Excellent for stargazing and night viewing
- 4/11: Mercury Viewing - Look low in eastern sky just before sunrise
- 4/22 - 23: Lyrids Meteor shower, peaks on the evening of 22nd, and morning of 23rd

◆◆◆◆◆ MAY

- 5/4: New Moon - Excellent for stargazing and night viewing

Eta Aquarids Meteor Shower
5/6-7: - peak showers on the night of the 6th and morning of 7th

5/19: Full moon - A rare blue moon!

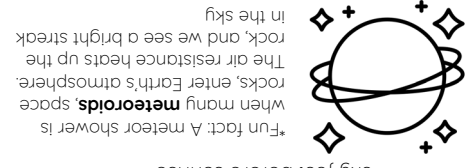
*Fun fact: Normally, there are only three full moons in each season of the year. However, every once in a while, there will be a fourth full moon, which is known as a **"blue moon"**. Hence the phrase "once in a blue moon." Blue moons occur on average once every 2.7 years, so don't miss out on this one!



*Fun fact: The Geminids meteor shower is the strongest and most active meteor shower of the year! They are active every December, when Earth passes through a massive trail of dusty debris shed by a weird, rocky object named 3200 Phaethon. The dust and grit burn up when they run into Earth's atmosphere in a flurry of shooting stars, what we know as a meteor shower! (blogs.nasa.gov)

- 12/26: New moon - Excellent for stargazing and night viewing
- 12/21-22: Ursids meteor shower - peaks on night of 21st and morning of the 22nd, best viewing after midnight
- 12/13-14: Geminids meteor shower - peaks on night of 13th and morning of 14th

◆◆◆◆◆ DECEMBER



*Fun fact: A meteor shower is when many **meteoroids**, space rocks, enter Earth's atmosphere. The air resistance heats up the rock, and we see a bright streak in the sky

- 11/28: Mercury viewing - look low in eastern sky just before sunrise
- 11/26: New moon - Excellent for stargazing and night viewing
- 11/24: look in western sky just after sunset. Conjunction of Venus and Jupiter - in early evening
- 10/20: Mercury viewing, look in western sky just after sunset
- 10/21 - 22: Orionids meteor shower, peaks on night of 21st and morning of 22nd.
- 10/27: Uranus viewing. Use a telescope!
- 10/28: New Moon - Excellent for stargazing and night viewing



11/5: Taurids meteor shower, peaks on 5th night

11/11: Mercury Transit across the sun - viewable at sunrise. Very rare event that won't happen again until 2039!

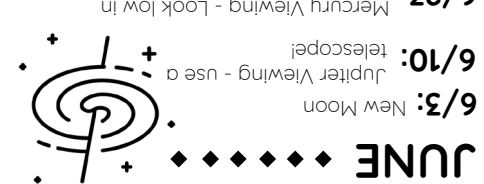
NOVEMBER

◆◆◆◆◆ OCTOBER

- 9/28: New Moon
- 9/9: Neptune Viewing - use a telescope!
- 9/28: New Moon
- 10/8: Draconids meteor shower, peaks on night of the 8th. Unusual in that best viewing is in early evening
- 10/20: Mercury viewing, look in western sky just after sunset
- 10/21 - 22: Orionids meteor shower, peaks on night of 21st and morning of 22nd.
- 10/27: Uranus viewing. Use a telescope!
- 10/28: New Moon - Excellent for stargazing and night viewing

◆◆◆◆◆ AUGUST

- 8/1: New Moon - excellent for stargazing!
- 8/9: Mercury viewing - before sunrise, east
- 8/12 - 13: Perseids Meteor Shower, peaks on night of the 12th, morning of 13th
- 7/28-29: Delta Aquarids Meteor shower - best viewing after midnight!
- 7/9: Saturn Viewing - use a telescope to see Saturn's moons!
- 7/2: New Moon



6/3: New Moon

6/10: Jupiter Viewing - use a telescope!

6/23: Mercury Viewing - Look low in western sky just after sunset

◆◆◆◆◆ JULY

◆◆◆◆◆ SEPTEMBER