

# Most massive moon in the solar system

What is the largest moon in the Solar System?

Orbiting the planet Jupiter is the solar system's largest moon. Called Ganymede, it has a diameter of 3,275 miles (5,270 kilometers). This makes Ganymede even larger than the planet Mercury, which has a diameter of 3,032 miles (4,879 kilometers). If Ganymede formed in orbit around the Sun rather than Jupiter, it would likely be defined as a planet.

What are the 4 largest moons in the Solar System?

Moving in order from innermost to outermost, they are Io, Europa, Ganymede, and Callisto. Ganymede is the larger of the four and the biggest, most massive moon in the solar system. Having a diameter of 3,273 miles (5,268 kilometers), it is larger than Mercury, which has a diameter of 3,032 miles (4,879 kilometers).

Which Moon has a magnetic field?

Ganymede is the largest moon in our solar system and the only moon with its own magnetic field. Callisto is the most heavily cratered object in our solar system. Ganymede completes an orbit around Jupiter about every seven Earth days (7.155). Ganymede orbits the Sun along with Jupiter and its other satellites every 12 Earth years.

What is the furthest Moon from Jupiter?

The furthest from Jupiter was called Callisto. Callisto is the second-largest moon of Jupiter and the third-largest in the solar system overall, having a diameter of 2,995 miles (4,820 kilometers). The surface of Callisto is heavily cratered, and it is likely the least active world in the solar system.

Is there an underground ocean on Jupiter's largest moon?

"NASA's Hubble Observations Suggest Underground Ocean on Jupiter's Largest Moon". NASA News. Archived from the original on November 5, 2019. Retrieved March 15, 2015.

What are Jupiter's moons called?

In time, he would notice that these "stars" were orbiting the planet, and realized that they were in fact Jupiter's moons - which would come to be named Io, Europa, Ganymede and Callisto. Of these, Ganymede is the largest, and boasts many fascinating characteristics.

It is also the eighth most massive moon in the solar system. Taking its name from the queen of the fairies in A Midsummer Night's Dream, Titania is gray in color and features highly reflective ...

The outermost planets in our Solar System are Jovian planets. True. Saturn is the largest and the most massive of the Jovian planets. False (Jupiter) Only Jupiter and Saturn have rings ... The Cassini spacecraft detected large clouds of water vapor escaping from vents through the icy crust of Saturn's moon Enceladus. True. The rings of Saturn ...

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A massive new report on Jupiter's moon Io shows that the explosive world is even stranger than anyone expected. ... This is our best look yet at the solar system's most volcanic object. A ...

List of solar system objects: By orbit--By mass--By radius--By name This is a list of solar system objects by mass, in decreasing order. This list is incomplete because the masses of many minor planets are not accurately known. The ordering is not similar to the order of a list of solar system objects by radius. Some objects are smaller, but denser, than others. Neptune, for example, is ...

Pluto is the largest known dwarf planet in the Solar System, discovered in 1930. Click for even more interesting facts and information on Pluto. ... Pluto is the ninth-largest and tenth most massive known object directly orbiting the Sun. However, when it comes to the trans-Neptunian objects, it is the largest by volume but less massive than ...

Ganymede, the largest and most massive moon in the Solar System, will be studied in particular and unprecedented detail due to the role it plays within the system of Jupiter's large icy moons, and its unique interactions with the Jovian environment. Juice will be the first spacecraft to ever orbit a moon in the outer Solar System (Ganymede).

Therefore, this moon is most likely a. a regular moon that formed with Jupiter in the early Solar System. b. an irregular moon that is most likely a captured asteroid. c. an irregular moon that is most likely a captured comet. ... Being the most massive planets in the solar system, they were able to gather more material to form moons than the ...

Ganymede is Jupiter's largest moon and is also the largest moon in the entire solar system. It is bigger than both Mercury and dwarf planet Pluto and only slightly smaller than Mars. The moon...

The Sun is the Solar System's star and by far its most massive component. Its large mass (332,900 Earth masses ), [ 75 ] which comprises 99.86% of all the mass in the Solar System, [ 76 ] produces temperatures and densities in its core high enough to sustain nuclear fusion of hydrogen into helium. [ 77 ]

Jupiter's moon Ganymede is a pretty special chunk of rock.. It's the largest and most massive moon in the Solar System. It's the only Solar System moon that generates its own magnetic field has the most liquid water of any Solar System body. And now, scientists have discovered, it may have the largest impact structure ever identified.

Within the Solar System, it is the largest and most massive satellite in relation to its parent planet, the fifth largest and most massive moon overall, and larger and more massive than all known dwarf planets. [17] Its surface gravity is about ...

Where would you direct him to find the following (use this chapter and Appendix F and Appendix G ): A.the

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least-dense planet B.the densest planet C.the largest moon in the solar system D.excluding the jovian planets, the planet where you would weigh the most on its surface (Hint: Weight is directly proportional to surface gravity.)

Eris (minor-planet designation: 136199 Eris) is the most massive and second-largest known dwarf planet in the Solar System. [22] It is a trans-Neptunian object (TNO) in the scattered disk and has a high-eccentricity orbit. Eris was discovered in January 2005 by a Palomar Observatory-based team led by Mike Brown and verified later that year. It was named in September 2006 after the ...

While it is only the fifth largest moon in the solar system, our moon does carry the mantle for the largest moon in relation to its planet at about one-fourth the size of Earth. Imagine if the largest moon of Jupiter were a quarter its size. (You can fit 11 Earths the massive king of the planets!) #4: Io: (2,264 miles/ 3,643 km)

Moving in order from innermost to outermost, they are Io, Europa, Ganymede, and Callisto. Ganymede is the larger of the four and the biggest, most massive moon in the solar system. Having a diameter of 3,273-miles (5,268-kilometres), it is larger than Mercury, which has a diameter of 3,032-miles (4,879-kilometres).

Both Jupiter and Saturn are orbited by over 70 confirmed moons. Some of the most unique, interesting moons orbit these two gas giants, and that includes the largest moon in the solar system. The biggest moon in the solar system is Jupiter's moon Ganymede with a diameter of 3,273-miles (5,268-kilometres), making it larger than the planet ...

It's one of the weirdest objects in the solar system. Haumea measures about 1,200 miles (1,931 km) across, making it nearly as wide as Pluto. But Haumea is just one-third as massive as Pluto ...

Jupiter (shown here with its largest moon, Ganymede) is the most massive planet in the solar system. It is also now the planet with the most known moons. NASA, ESA and E. Karkoschka (University of ...

The largest and most massive satellite is Ganymede, which is 2.017 times as heavy as the Earth's Moon. It has a mean diameter of 5,262.4 km (3,269.9 miles). The diameter of Ganymede - discovered by Galileo Galilei in 1610 - is greater than the width of the USA. It is the largest moon of Jupiter and the largest moon in the Solar System.

Io is the most volcanically active body in our solar system. As Io orbits Jupiter, the planet's immense gravity causes "tides" in Io's solid surface that rise 300 feet (100 meters) high and ...

Pluto (minor-planet designation: 134340 Pluto) is a dwarf planet in the Kuiper belt, a ring of bodies beyond the orbit of Neptune is the ninth-largest and tenth-most-massive known object to directly orbit the Sun is the largest known trans-Neptunian object by volume, by a small margin, but is less massive than Eris.Like other Kuiper belt objects, Pluto is made primarily of ice and rock ...

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3 days ago&#0183; With New Horizons, we are visiting and learning about the objects at the very edge of our solar system. They may help us understand how our solar system formed. In early 2019, New Horizons flew past its second major science target - Arrokoth, the most distant object ever explored up close. Learn more here!

Source: NASA/JPL The tenth largest moon in the solar system is the second largest orbiting Uranus. We learned more about the moon after the Voyager 2 probe visited Uranus in 1996. We discovered that Oberon is half rock, half water ice and pocked with craters.

The new ruling reclassifies Pluto as a dwarf planet and reduces the number of planets in the solar system to eight. Both Eris and the asteroid Ceres are also classified as dwarf planets. Sep 14, 2006: The International Astronomical Union (IAU) announces that the dwarf planet known as Xena will be called Eris, after the Greek goddess of discord.

Jupiter is the largest and most massive planet in the solar system. Jupiter is eleven Earths across with a diameter of 88,846 miles (142,983 kilometers). By volume, Jupiter reveals itself as the true king of the planets. ... Callisto is one of the four Galilean moons of Jupiter, the second largest of Jupiter's moons, and the third-largest moon ...

Its diameter is estimated at 3000 km, and it weighs roughly  $1.66 \times 10^{22}$  kg, which is about 27% more massive than Pluto. Like Pluto, it is very difficult to make precise measurements of Eris' diameter and mass, but these are the most updated estimates. Eris orbits the Sun at the far reaches of our solar system in an area known as the scattered disk.

Ganymede is also the most massive natural satellite. It was discovered by Galileo Galilei on January 7, 1610. The four largest Moons of Jupiter- IO, Europa, Ganymede, and Callisto (from the left) Although Ganymede has a larger radius than Mercury it is not as massive as Mercury. Mass of Mercury-  $330.2 \times 10^{21}$  kg Mass of Ganymede-  $148.2 \times 10^{21}$  ...

The science of studying the Sun and its influence throughout the solar system is called heliophysics. ... star with a radius of about 435,000 miles (700,000 kilometers). Many stars are much larger - but the Sun is far more massive than our home planet: it would take more than 330,000 Earths to match the mass of the Sun, and it would take 1.3 ...

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