

# What is the largest moon in the **Solar System?**

A. Earth's Moon

B. Europa

C. Ganymede

D. Titan

Show Answer...

**Correct Answer: C (Ganymede)** 

#### largest Moon In The Solar System?

Ganymede is the largest moon in the Solar System and the only moon known to have its own magnetic field. It is the fourth-largest moon in the Solar System and the largest moon in the Solar System relative to the size of its planet.

# Ganymede: The Largest Moon in the Solar **System**

When it comes to the largest moon in the solar system, there is only one answer: Ganymede. Located in orbit around Jupiter, Ganymede is the largest moon in our solar system, with a diameter of 5,268 kilometers (3,273 miles), making it larger than the planet Mercury.

Ganymede was first discovered by Galileo Galileo in 1610, along with Jupiter's three other largest moons: Io, Europa, and Callisto. It was named after the mythological Greek god Ganymede, who was a cupbearer to the gods on Mount Olympus.

One of the most fascinating aspects of Ganymede is its composition. Like many other moons in the outer solar system, Ganymede is made primarily of ice and rock. However, unlike most other moons, Ganymede has a layered structure with a dense, metallic core surrounded by layers of ice and rock.



Ganymede also has a very thin atmosphere, composed mainly of oxygen. This atmosphere is not dense enough to support life as we know it, but it is a unique feature for a moon and has important implications for the study of planetary science.

One of the most interesting aspects of Ganymede is the presence of a magnetic field. Ganymede is the only moon in our solar system with a magnetic field, and scientists believe it is generated by a dynamo effect caused by the moon's ironrich core.

Ganymede's surface is also notable for its many craters and long, winding valleys, as well as its dark, cratered regions and bright, grooved regions. Scientists believe that the bright regions may have been formed by tectonic activity in the moon's icy crust, while the dark regions may be areas where older, cratered terrain has been covered by younger, smoother ice.

Overall, Ganymede is a fascinating object for scientists to study and a testament to the vast diversity of the solar system. As the largest moon in our solar system, it has many unique features that make it a valuable subject of study for planetary scientists and astrobiologists alike.

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