

# Moon with lowest density in solar system

Which Planet Has the Lowest Density . The lowest density planet in our solar system is Saturn's moon, Titan. Titan's density is just 1.88 grams per cubic centimeter. That's less than half the density of water! Titan is also the largest moon in our solar system. It's diameter is almost 50% larger than Earth's moon. Titan is an ...

The eight planets of our Solar System and our ... and then Jupiter's innermost moon: Io. ... the densest planet in the Solar System without a doubt. Without a low-density ocean or atmosphere, and ...

The apparent size of the Moon is roughly the same as that of the Sun, with both being viewed at close to one-half a degree wide. The Sun is much larger than the Moon but it is the vastly greater distance that gives it the same apparent size as the much closer and much smaller Moon from the perspective of Earth.

Tethys (/ 'ti:th?s, 't?th?s /), or Saturn III, is the fifth-largest moon of Saturn, measuring about 1,060 km (660 mi) across. It was discovered by Giovanni Domenico Cassini in 1684, and is named after the titan Tethys of Greek mythology.

Saturn is the second largest planet in the solar system by size and mass. Saturn is 74,898 miles (120,536 kilometres) in diameter and 95 times heavier than the Earth. Interestingly, Saturn possesses the lowest density of any planet in the solar system, having a density even lower than that of water.

The answer (3) is incorrect because the moon has the second greatest density ( $3.3 \text{ g cm}^{-3}$ ) among these four celestial bodies in the solar system. Step 4 4 of 5

We can tell from their densities (see Table 2 in Overview of Our Planetary System) that Mercury has the greatest proportion of metals (which are denser) and the Moon has the lowest. Earth, Venus, and Mars all have roughly similar bulk compositions: about one third of their mass consists of iron-nickel or iron-sulfur combinations; two thirds ...

Study with Quizlet and memorize flashcards containing terms like The terrestrial planets of our solar system are \_\_\_\_\_, The jovian planets of our solar system are \_\_\_\_\_, Characteristics of Terrestrial planets. and more. ... Earth-Sun-Moon System. 21 terms. gue1073. Preview. AST-111 Exam 1. 24 terms. lolcourtney. ... and hydrogen compounds-low ...

1 day ago; The dwarf planet Pluto is unique--an icy, low-density body smaller than Earth's Moon, more similar to comets or to the large icy moons of the outer planets than to any of the planets themselves. Its acceptance as a member of ...

Parts-per-million chart of the relative mass distribution of the Solar System, each cubelet denoting  $2 \times 10^{24}$  kg. This article includes a list of the most massive known objects of the Solar System and partial lists of smaller objects by observed mean radius. These lists can be sorted according to an object's radius and mass

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and, for the most massive objects, volume, density, and surface ...

Some larger solar system objects haven't quite managed this, and most astronomers agree that it's only possible for Mimas because of the moon's low density -- just 15% greater than water. Pan and ...

Explore the fascinating world of the Solar System with planets in order of mass, density, and more. Perfect ice-breakers for star parties and beyond! ... (g/cm<sup>3</sup>). The density of a planet can vary throughout its radius due to different layers such as the crust, mantle, and core. The coldest to the hottest planet. ... that Mars' moon Phobos is ...

Jupiter's second-largest moon Callisto is the third-largest moon in the solar system. The moon's surface is thought to be about 4 billion years old, making it the oldest icy surface in the solar ...

Named after the "mother of the gods" in Greek mythology, Rhea was discovered in 1672 by G.D Cassini. It is the second-largest moon of Saturn and the ninth-largest in the Solar System. It has a density of about 1.236 g/cm<sup>3</sup>. This low density indicates that it is made of ~25% rock (density ~3.25 g/cm<sup>3</sup>) and ~75% water ice (density ~0.93 g/cm<sup>3</sup> ...

Moon density, the measure of how tightly packed matter is within these enigmatic orbs, is not a uniform attribute across the outer solar system. Instead, it paints a vivid mosaic ...

Mass of Mercury: 3.30 × 10<sup>23</sup> kg (7.27 × 10<sup>23</sup> lbs): Planet Mercury is the closest to the sun and it is also the lightest planet in our solar system. This planet is just a little heavier than our moon.

Terrestrial Planets - Solid, rocky surface - Located within the inner solar system - Small Size Jovian Planets - Extensive ring systems - Numerous orbiting moons - Primarily composed of hydrogen, helium, and hydrogen compounds - low average density

Density measures how firmly matter is packed in a given space. Hence the density of Moon is measured as the mass of the satellite per unit volume. Density of Moon and Earth: The Moon's density is a low 3346.4 kg/m<sup>3</sup> or 3.3464 g/cm<sup>3</sup> The Earth's density is 5515 kg/m<sup>3</sup> or 5.515 g/cm<sup>3</sup> This means that [...]

Frozen Ice Ball! Discovered in 1684 by Giovanni Cassini, Tethys is the 16<sup>th</sup> largest moon and has the lowest density of a major moon in the solar system! Saturn's 5<sup>th</sup> largest moon is composed of water-ice, is heavily cratered, scarred by a large chasm, marked with mysterious red streaks and is Saturn's second-brightest moon after Enceladus.

These moons are called small-body satellites. Most planetary moons probably formed from the discs of gas and dust circulating around planets in the early solar system, though some are captured objects that formed elsewhere and fell into orbit around larger worlds. Scientists are very good at spotting tiny moons orbiting distant, giant planets.

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Saturn's moon Titan is the largest moon in the solar system. It's even bigger than Mercury, with a diameter of 5,150 km. But its mass is only  $1.345 \times 10^{23}$  kg, about a quarter that of Mercury. ... The lowest density in our solar system is found on Saturn's moon, Titan. Titan is made mostly of ice and rock, and is much less dense than ...

Hyperion is the 8th largest moon of Saturn and 23rd in the Solar System. Hyperion is the only moon in the Solar System that rotates chaotically. The density of Hyperion is one of the lowest in the Solar System at 0.5 grams per cubic centimetres which is lower than Saturn's which is 0.7 grams per cubic centimetre.

In geophysical terms, the Moon is a planetary-mass object or satellite planet. Its mass is 1.2% that of the Earth, and its diameter is 3,474 km (2,159 mi), roughly one-quarter of Earth's (about as wide as the United States from coast to coast).

Tethys with the lowest density of a major moon in the solar system, Saturn's 5th largest moon is heavily cratered, scarred by a large chasm and marked with mysterious red streaks! ... The unique looking Hyperion is the largest nonspherical moon in the solar system and has a distinctive spongy appearance.

The Dione moon is about one third of the size of Planet Earth, and is the 15th largest moon in the Solar System. Dione is one of the better known inner moons of Saturn and with a diameter of around 697 miles (1122 kilometers). ... This moon has a low density measuring a density of 1.476g/centimeters cubed (1.48 times that of water, and water ...

Titan is Saturn's largest moon and the only moon in the solar system known to have clouds, a dense atmosphere, and liquid lakes. The diameter of its solid body is 5,150 km (3,200 miles) making it the second-largest moon in the solar system. ... Saturn has the lowest mean density--about 70 percent that of water--of any known object in the ...

Planetary Fact Sheet in U.S. Units. Planetary Fact Sheet - Values compared to Earth. Index of Planetary Fact Sheets - More detailed fact sheets for each planet. Notes on the Fact Sheets - Explanations of the values and headings in the fact sheet. Schoolyard Solar System - Demonstration scale model of the solar system for the classroom

This is a graph with density (g/cm<sup>3</sup>) on the y-axis. On the x-axis there are the planets Mercury, Venus, Earth and Mars (grouped as terrestrial planets), Jupiter, Saturn, Uranus and Neptune (grouped as giant planets), Moon, Triton, Enceladus and Hyperion (grouped as moons), and Vesta, grouped as an asteroid. There are red lines running horizontally across the graph, the ...

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