

# Mysterious planet in our solar system

Two recent studies have shown that the existence of a mysterious, hypothetical Planet Nine could explain why the planets in our Solar System don't fully line up with the Sun. Researchers have been speculating about a ninth planet since January this year, and these latest studies add more weight to the hypothesis that, at some point in time at ...

4. The Swelled Up Gas Planet. HAT-P-1 is a strange and mysterious planet outside the solar system, located 450 light years away, and has recently been discovered by the Harvard-Smithsonian Center for Astrophysics. Is a giant gas planet with a size about half of Jupiter, but the stunning fact about the planet is that, despite its size, it weighs about the same as only a cork ...

The Kuiper Belt is a huge area in our solar system that lies beyond Neptune, packed with icy bodies and leftovers from the solar system's early days. Think of it as a distant, cold junkyard orbiting the Sun, filled with things like dwarf planets, comets, and rocky debris.

Studying Venus not only teaches us about our own planet, but also about many planets beyond our solar system. [Skip to main content](#) . [Missions](#) . [Search All NASA Missions](#); [A to Z List of Missions](#); [Upcoming Launches and Landings](#); ... [Venus: The Mysterious Planet](#). October 29, 2019. Credit: NASA's Goddard Space Flight Center: Language:

Pluto is a complex and mysterious world with mountains, valleys, plains, craters, and maybe glaciers. Discovered in 1930, Pluto was long considered our solar system's ninth planet. But after the discovery of similar intriguing worlds deeper in the distant Kuiper Belt, icy Pluto was reclassified as a dwarf planet.

The Solar System [d] is the gravitationally bound system of the Sun and the objects that orbit it. [11] It formed about 4.6 billion years ago when a dense region of a molecular cloud collapsed, forming the Sun and a protoplanetary disc. The Sun is a typical star that maintains a balanced equilibrium by the fusion of hydrogen into helium at its core, releasing this energy from its ...

The Mysterious Worlds We Know Best. The heart of the Solar System is the Sun, a yellow star of moderate mass somewhere in the middle of its life cycle. ... planets and comets in our own Solar System; the birth of stars and planets; and the supermassive black holes hidden at the centers of the Milky Way and other galaxies. ...

Pluto was considered the ninth major planet in our solar system until the definition of "planet" was changed by the International Astronomical Union (IAU) in 2016. This new definition reclassified Pluto as a dwarf planet. Even before the IAU action, back when it was discovered, it was thought that Pluto was as massive as Earth. ...

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A New Planet? Many believe a mysterious tenth (if considering Pluto) or ninth planet is orbiting in our Solar System, commonly referred to as Planet X. This hypothetical planet might be the size of Neptune, and it would have a highly elongated orbit, even more so than Pluto. ... The smallest planet in our Solar System is Mercury, which is only ...

Astronomers have long been on the hunt for a mysterious giant planet lurking beyond Neptune--Planet Nine. This elusive world could be the hidden force behind the strange orbits of icy bodies in the distant Kuiper Belt. ... Unlike the other planets in our solar system, Planet Nine would follow an anti-aligned orbit, meaning its closest approach ...

More than half of the Sun-like star systems surveyed in the Milky Way harbor a mysterious type of planet unlike any in our own solar system. Larger than Earth, smaller than Neptune, and orbiting closer to their stars than Mercury orbits the Sun, these warm-to-hot sub-Neptunes are the most common type of planet observed in the galaxy.

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