#### What Is Pluto Considered Now

# What is Pluto Considered Now? Beyond the Ninth Planet

For decades, Pluto held a special place in our solar system: the ninth planet. But in 2006, this changed dramatically. Pluto's planetary status was reclassified, sparking much debate and confusion. This article will clarify what Pluto is considered now and explore the reasoning behind this significant reclassification.

### The Demise of "Planet": Introducing Dwarf Planets

The key to understanding Pluto's current status lies in the International Astronomical Union (IAU)'s definition of a "planet." In 2006, the IAU established three criteria for a celestial body to be classified as a planet:

- 1. It must orbit the Sun: This seems obvious, but it's a fundamental requirement. Pluto clearly meets this criterion.
- 2. It must have sufficient mass to assume hydrostatic equilibrium (a nearly round shape): This means its own gravity must be strong enough to pull it into a roughly spherical shape. Pluto is indeed roughly spherical, satisfying this condition.
- 3. It must have cleared the neighbourhood around its orbit: This is where things get tricky for Pluto. This criterion means that a planet's gravity is dominant enough to clear away other objects of comparable size from its orbital path. Essentially, it's the "big kid" on its orbital block. Pluto shares its orbital neighbourhood with numerous other icy bodies in the Kuiper Belt, failing to meet this final condition.

Because Pluto doesn't dominate its orbital space, the IAU created a new category: dwarf planet. A dwarf planet meets the first two criteria but not the third. It's a smaller, less gravitationally dominant body compared to a full-fledged planet.

# Pluto and the Kuiper Belt: A Crowded Neighbourhood

The Kuiper Belt is a region beyond Neptune containing countless icy bodies, remnants from the early solar system. Pluto resides within this belt, sharing space with numerous other objects of comparable size, including Eris, Makemake, and Haumea, all now classified as dwarf planets. Imagine a crowded playground; the planets are the big kids who have claimed their own spaces, while the dwarf planets are part of a larger group sharing the same area.

The discovery of Eris, an object similar in size to Pluto, was a crucial factor in the reclassification. If Pluto were considered a planet, then Eris, and potentially many other Kuiper Belt objects, would also need to be classified as planets, significantly expanding the list of planets in our solar system. This highlighted the need for a more precise definition of a planet and led to the development of the dwarf planet category.

### **What Makes a Dwarf Planet Different?**

The main difference between a planet and a dwarf planet lies in their gravitational dominance. Planets have cleared their orbital paths, while dwarf planets share their orbits with other objects of similar size. This doesn't make dwarf planets less interesting; they are fascinating celestial bodies that hold valuable clues about the formation and evolution of our solar system.

### **Pluto: Still a Significant Celestial Body**

Despite the reclassification, Pluto remains a significant celestial body. It's a complex world with

a diverse geology, including mountains, glaciers, and a thin atmosphere. The New Horizons spacecraft's flyby in 2015 provided stunning images and data, revealing Pluto's surprising features and complexity. Its reclassification doesn't diminish its scientific importance. It simply places it within a more accurate and refined categorization of celestial objects.

#### Actionable Takeaways and Key Insights

Pluto is now classified as a dwarf planet, not a planet.

The IAU's definition of a planet includes three criteria, and Pluto fails the third.

The Kuiper Belt, where Pluto resides, is densely populated with icy bodies.

Dwarf planets are still fascinating and scientifically important celestial bodies.

The reclassification reflects a more nuanced understanding of our solar system.

#### **FAQs**

- 1. Why was Pluto reclassified? Pluto was reclassified because it does not meet the IAU's criteria for a planet, specifically the requirement to have cleared its orbital neighbourhood.
- 2. Is Pluto smaller than the Moon? No, Pluto is slightly larger than Earth's moon.
- 3. Are there other dwarf planets? Yes, besides Pluto, there are several other recognized dwarf planets, including Eris, Makemake, and Haumea.
- 4. Could Pluto become a planet again? It's highly unlikely. The IAU's definition is unlikely to change significantly.
- 5. What did the New Horizons mission teach us about Pluto? The New Horizons mission revealed a surprisingly complex and diverse world with mountains, glaciers, and a thin atmosphere, significantly enhancing our understanding of Pluto.

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