



Researchers believe there is a massive, undiscovered planet lurking in our solar system: ScienceAlert

Description

Our Solar System is a bustling neighborhood with millions of objects in constant motion, from planets and moons to comets and asteroids. Each year, astronomers uncover new discoveries, expanding our understanding of this vast cosmic playground.

By 1846, astronomers had identified all eight main planets. However, the pursuit of knowledge never ceases, leading to the discovery of dwarf planets in the past century, with Pluto now classified as one of them.

The detection of these dwarf planets has sparked curiosity about the existence of a possible ninth planet lurking in the outskirts of our Solar System.

The quest for this hypothetical ninth planet, also known as "Planet Nine" or "Planet X", is grounded in the notion that the current structure of our Solar System lacks coherence without it. Gravity is a key player in the cosmic dance of celestial bodies, with every object orbiting the Sun under its influence.

When astronomers observe distant objects beyond Pluto, they notice peculiar behaviors, such as elliptical orbits and inclinations distinct from the rest of the Solar System. Computer models suggest the presence of a massive planet, at least ten times the mass of Earth, influencing these movements.

The challenge now lies in confirming these predictions by spotting Planet Nine, a task that proves arduous due to its significant distance from the Sun and faint visibility. Researchers worldwide continue their diligent search, hoping that technological advancements will provide the breakthrough needed to ascertain the existence of this elusive planet.

As new telescopes are developed and sky surveys intensify in the coming years, there remains hope that the mystery of Planet Nine will finally be unraveled, shedding light on the secrets of our celestial home.

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Vocabulary List:

1. **Bustling** // (adjective): Full of energetic activity or excitement.
2. **Coherence** // (noun): The quality of forming a unified whole; logical and consistent.
3. **Curiosity** // (noun): Strong desire to know or learn something.
4. **Elusive** // (adjective): Difficult to find catch or achieve.
5. **Influence** // (noun): The capacity to have an effect on character development or behavior of someone or something.
6. **Uncover** // (verb): To reveal or make known something that was hidden or secret.

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. Which word means full of energetic and noisy activity?

- Option: Bustling
- Option: Elusive
- Option: Influence
- Option: Transplant

2. Which word means the capacity to have an effect on the character development or behavior of someone or something?

- Option: Mysterious
- Option: Profitable
- Option: Influence
- Option: Thriving

3. Which word means to reveal or expose something that was hidden?

- Option: Unique
- Option: Thrive



Option: Uncover

Option: Loomy

4. Which word means growing or developing well or vigorously?

Option: Loomy

Option: Thrive

Option: Flourish

Option: Thriving

5. Which word means producing a great deal of profit?

Option: Lucrative

Option: Certification

Option: Admission

Option: Observers

6. Which word means stretched over a period of time?

Option: Debris

Option: Profitable

Option: Amassed

Option: Spanned

7. Which word means critical observation or examination?

Option: Capitalize

Option: Amassed

Option: Scrutiny

Option: Liftoff

8. Which word means the process or fact of entering or being allowed to enter a place or organization?

Option: Admission

Option: Mysterious

Option: Unique

Option: Thriving

9. Which word refers to people who are trained to travel in space?

Option: Loomy

Option: Risk

Option: Discovery

Option: Astronauts

10. Which word means a strong desire to know or learn something?

Option: Curiosity

Option: Rarity

Option: Influence



Option: Capitalize

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. With proper care the garden began to _____ showcasing vibrant blooms.
12. Effective communication is _____ in maintaining healthy relationships.
13. The explorer set out to _____ new lands beyond the known territories.
14. Despite the unexpected obstacles the team _____ upon a rare artifact.
15. After implementing cost-saving measures the business became more _____.
16. Over the years the collector _____ a remarkable collection of vintage cars.
17. In the favorable climate the plant started to _____ and produce abundant fruit.
18. The shy creature remained _____ making it difficult to capture a clear photograph.
19. The skilled _____ carefully selected plants to create a beautiful landscape design.
20. The mentor's guidance had a profound _____ on the student's career choices.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. The abandoned house at the end of the street had a reputation for being haunted.
22. The artist's style was one-of-a-kind unlike anything seen before.
23. The gemstone was a rare find considered a valuable collectible due to its scarcity.
24. The dark clouds gathered overhead hinting at an impending storm.
25. Successful entrepreneurs know how to make the most of opportunities presented to them.
26. The delicate flower needed to be moved to a larger pot to support its growth.
27. The archeologists made an incredible unearthing ancient artifacts buried for centuries.
28. After the storm passed the beach was littered with broken branches and scattered possessions.



29. The wildlife reserve attracted many who came to study and admire the diverse species.

30. To pursue a career in education teachers often need to obtain proper .

Answer

Multiple Choice: 1. Bustling 2. Influence 3. Uncover 4. Thriving 5. Lucrative 6. Spanned 7. Scrutiny 8. Admission 9. Astronauts 10. Curiosity

Gap-Fill: 11. Flourish 12. Crucial 13. Discover 14. Stumbled 15. Profitable 16. Amassed 17. Thrive 18. Elusive 19. Horticulturist 20. Influence

Matching sentence: 1. Mysterious 2. Unique 3. Rarity 4. Loomy 5. Capitalize 6. Transplant 7. Discovery 8. Debris 9. Observers 10. Certification

CATEGORY

1. Sci/Tech - LEVEL6

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