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# Parker Probe Successfully Navigates Close Encounter with Sun

## Description

The Parker Solar Probe, launched by NASA in August 2018, embarked on a groundbreaking mission to explore the Sun's outer corona. Through a series of gravity-assist maneuvers with Venus, the probe achieved a historic feat on October 29th, 2018, surpassing Helios 2's distance record to become the closest man-made object to the Sun.

Subsequent passes through the Sun's corona have provided valuable insights into solar phenomena, with the probe's closest approach occurring on December 24th, 2024, at a mere 6 million km above the Sun's surface. Traveling at an astonishing velocity of 692,000 km/h, equivalent to 0.064% of the speed of light, the Parker Solar Probe has set a new standard for human-made spacecraft speed.

Shielded by a robust carbon foam shield capable of withstanding temperatures ranging from 980 to 1425°C, the probe has defied extreme conditions in the solar atmosphere. NASA's Associate Administrator, Nicky Fox, hailed this mission as a pivotal moment in space exploration, shedding light on the Sun's influence on various aspects of our solar system.

Designed to study solar wind and space weather, the Parker Solar Probe has unveiled surprising discoveries during its missions, including the detection of unique features in the Sun's corona and interactions with celestial bodies like Venus and comets. With upcoming solar passes scheduled in 2025, the probe continues to captivate scientists and space enthusiasts alike, pushing the boundaries of our understanding of the solar system.

As the mission progresses, the data collected by the Parker Solar Probe promises to unveil unprecedented insights into the mysteries of our Sun, paving the way for future discoveries in the realm of space exploration.

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## Vocabulary List:

1. **Phenomena** /fə'nɒmɪnə/ (noun): Observable events or occurrences often used in scientific contexts.
2. **Velocity** /və'lɒsɪti/ (noun): The speed of something in a given direction.
3. **Robust** /rə'brʌst/ (adjective): Strong and healthy; able to withstand adverse conditions.
4. **Unprecedented** /ʌn'prɛsɪdɛntɪd/ (adjective): Never done or known before; without previous example.
5. **Shielded** /'ʃi:ldɪd/ (verb): Protected from harm or danger.
6. **Coroná** /kə'rɒʊ.nə/ (noun): The outer atmospheric layer of the Sun visible during a solar eclipse.

## Vocabulary quizzes



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

1. What term describes something that has been uncovered or discovered?  
Option: Drowned  
Option: Invisible  
Option: Unearthed  
Option: Hidden
  
2. Which word refers to heavenly or divine entities?  
Option: Terrestrial  
Option: Mundane  
Option: Supernatural  
Option: Celestial
  
3. What does it mean when objects are in proper or correct relative positions?  
Option: Disarray  
Option: Misalignment  
Option: Alignment  
Option: Chaotic
  
4. Which term describes something strong healthy and vigorous?  
Option: Fragile  
Option: Delicate  
Option: Robust  
Option: Weak
  
5. What does it mean to make something less severe serious or painful?  
Option: Intensify  
Option: Worsen  
Option: Amplify  
Option: Mitigate
  
6. Which term is used to describe anxiety or fear that something bad will happen?  
Option: Elation  
Option: Joy  
Option: Contentment  
Option: Apprehension
  
7. What term is used to describe the act of fighting or opposing something?  
Option: Embracing  
Option: Accepting  
Option: Surrendering



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Option: Combatting

8. Which word is used to describe keenness or sharpness especially in perception or vision?

Option: Blurriness

Option: Dullness

Option: Clarity

Option: Acuity

9. What term describes something that has not happened before or never seen or experienced?

Option: Common

Option: Ordinary

Option: Unprecedented

Option: Typical

10. What term is used to describe an approach that considers the whole system or entity?

Option: Fragmented

Option: Partial

Option: Holistic

Option: Limited

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

11. The \_\_\_\_\_ of historical artifacts is crucial for maintaining cultural heritage.

12. The distance between stars is measured in \_\_\_\_\_ units.

13. The \_\_\_\_\_ of information across long distances has been revolutionized by modern technology.

14. The car accelerated at an incredible \_\_\_\_\_ on the open highway.

15. The garden was filled with a \_\_\_\_\_ of colorful flowers.

16. Regular exercise is said to promote health and \_\_\_\_\_.

17. The confidential documents were securely \_\_\_\_\_ from unauthorized access.

18. An \_\_\_\_\_ of the moon occurs when it passes directly behind the earth into its shadow.



19. The artist \_\_\_\_\_ painted every detail of the landscape with precision.
20. A \_\_\_\_\_ can help protect individuals from certain infectious diseases.

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

21. Natural disasters such as hurricanes and earthquakes are catastrophic .
22. Lions and tigers are examples of animals that primarily eat meat.
23. An _____ is an event where one celestial body is hidden by another.
24. The sun's _____ is visible during a total solar eclipse.
25. Teamwork is _____ in achieving success in most projects.
26. The ability to bounce back from adversity is known as _____.
27. The priest performed an _____ to summon divine blessings during the ceremony.
28. Efforts to reduce carbon emissions are important for environmental _____.
29. Deer and rabbits are known for being primarily feeding on plants and vegetation.
30. Ancient artifacts were _____ during the archaeological dig.

## Answer

**Multiple Choice:** 1. Unearthed 2. Celestial 3. Alignment 4. Robust 5. Mitigate 6. Apprehension 7. Combatting 8. Acuity 9. Unprecedented 10. Holistic

**Gap-Fill:** 11. Preservation 12. Astronomical 13. Transmission 14. Velocity 15. Myriad 16. Longevity 17. Shielded 18. Eclipse 19. Meticulously 20. Vaccination

**Matching sentence:** 1. Phenomena 2. Carnivorous 3. Occultation 4. Coroná 5. Instrumental 6. Resilience 7. Invocation 8. Mitigation 9. Herbivorous 10. Unearthed

## CATEGORY

1. Health - LEVEL5

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