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# Voyager 1 Reconnects Online: NASA's Farthest Spacecraft Transmits Data from 4 Instruments

## Description

Great news everyone! NASA's spacecraft Voyager 1 is back in action, sending usable data back to Earth. The spacecraft, which is 46 years old and located 15 billion miles away from Earth, faced communication issues in November 2023. However, thanks to the dedicated team of controllers, the problem has been identified and fixed. Voyager 1 is now fully operational once more, with all four science instruments up and running. This is a huge accomplishment considering Voyager 1's successful mission to study Jupiter and Saturn and its current journey through interstellar space. Moving forward, the team will continue to fine-tune the spacecraft to ensure it remains in top condition. Voyager 1's return to functionality marks a bright future ahead for this legendary spacecraft. Stay tuned for more exciting updates on space exploration!

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## Vocabulary List:

1. **Operational** // (adjective): In working order functioning.



2. **Communications** // (noun): Means of exchanging information or messages.
3. **Interstellar** // (adjective): Located or occurring between stars or within interstellar space.
4. **Controllers** // (noun): Individuals who managedirector regulate.
5. **Fine-tune** // (verb): To make small adjustments to improve the performance or effectiveness.
6. **Usable** // (adjective): Able to be used.

## Comprehension Questions

### Multiple Choice

1. How far away is Voyager 1 located from Earth?  
Option: 10 billion miles  
Option: 15 billion miles  
Option: 20 billion miles  
Option: 25 billion miles
2. How old is NASA's spacecraft Voyager 1?  
Option: 41 years old  
Option: 44 years old  
Option: 46 years old  
Option: 50 years old
3. Which planets did Voyager 1 successfully study during its mission?  
Option: Mars and Venus  
Option: Jupiter and Saturn  
Option: Uranus and Neptune  
Option: Mercury and Earth
4. In what year did Voyager 1 face communication issues?  
Option: 2017  
Option: 2018  
Option: 2019  
Option: 2023
5. How many science instruments are currently operational on Voyager 1?  
Option: Two  
Option: Three



Option: Four

Option: Five

6. What is the primary goal moving forward for the team working on Voyager 1?

Option: Retiring the spacecraft

Option: Launching new missions

Option: Fine-tuning the spacecraft

Option: Shutting down communications

## Answer

**Multiple Choice:** 1. 15 billion miles 2. 46 years old 3. Jupiter and Saturn 4. 2023 5. Four 6. Fine-tuning the spacecraft

## Vocabulary quizzes

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

1. Which term refers to the functionality and efficiency of a system or process?

Option: Radiating

Option: Operational

Option: Simulation

Option: Vortex

2. What technology involves the use of artificial intelligence for its operations?

Option: Innovative

Option: AI-powered

Option: Controllers

Option: Fine-tune

3. Which term describes the action of making small adjustments or improvements to optimize performance?

Option: Fine-tune

Option: Thermal regulation

Option: Reflecting

Option: Consumption

4. What does the term "obsolescence" refer to in the context of technology?

Option: Diverse

Option: Revolutionize

Option: Obsolescence



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Option: Communications

5. Which term is used to describe a platform for starting or initiating a project?

- Option: Fine-tune
- Option: Launchpad
- Option: Consumption
- Option: Reflecting

6. What term refers to a mass of fluid or air moving in a circular motion like a whirlpool?

- Option: Interstellar
- Option: Vortex
- Option: Semiconductor
- Option: Instability

7. Which term refers to strong desires or hopes for achievement or success?

- Option: Innovative
- Option: Aspirations
- Option: Radiating
- Option: Reflection

8. What does it mean to "revolutionize" something?

- Option: Simulation
- Option: Revolutionize
- Option: Mysterious
- Option: Commitment

9. Which term relates to the usage or utilization of resources?

- Option: Radiating
- Option: Consumption
- Option: Significance
- Option: Controllers

10. What is the process of controlling temperature in a system or device known as?

- Option: Theorize
- Option: Thermal regulation
- Option: Insights
- Option: Commitment

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

11. \_\_\_\_\_ communication may become a reality with advancements in technology.



12. \_\_\_\_\_ on past achievements can provide motivation for future endeavors.
13. Modern electronics heavily rely on the use of \_\_\_\_\_ materials.
14. Success often requires dedication and \_\_\_\_\_ to one's goals.
15. \_\_\_\_\_ software can replicate real-world scenarios for testing purposes.
16. Data analysis can provide valuable \_\_\_\_\_ for decision-making.
17. The old mansion had a \_\_\_\_\_ aura surrounding it intriguing all who passed by.
18. Automated systems often use specialized \_\_\_\_\_ for operation.
19. The sun was \_\_\_\_\_ warmth on the cool autumn day.
20. \_\_\_\_\_ on feedback can help in improving one's performance.

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

21. Remote-controlled vehicles often rely on specialized devices for operation.
22. The assistance provided by the experienced team was truly priceless.
23. The conference boasted a range of speakers with varied backgrounds and expertise.
24. Taking the to propose innovative ideas can lead to significant progress.
25. Efficient mechanisms are crucial for preventing electronic devices from overheating.
26. Understanding the of a discovery can shape its impact on society.
27. The system was designed with advanced features to maintain optimal performance.
28. Achieving long-term goals requires unwavering dedication and .
29. The region experienced political following the unexpected election results.
30. New technologies have the potential to various industries.



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## Answer

**Multiple Choice:** 1. Operational 2. AI-powered 3. Fine-tune 4. Obsolescence 5. Launchpad 6. Vortex  
7. Aspirations 8. Revolutionize 9. Consumption 10. Thermal regulation

**Gap-Fill:** 11. Interstellar 12. Reflection 13. Semiconductor 14. Commitment 15. Simulation 16. Insights  
17. Mysterious 18. Controllers 19. Radiating 20. Reflecting

**Matching sentence:** 1. Controllers 2. Invaluable 3. Diverse 4. Initiative 5. Heat dissipation 6. Significance  
7. Thermal regulation 8. Commitment 9. Instability 10. Revolutionize

## CATEGORY

1. Sci/Tech - LEVEL1

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### Author

aimeeyoung99

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