



The Hubble Space Telescope undergoes significant changes to continue studying the universe

Description

NASA officials have announced that the Hubble Space Telescope is undergoing a change in operation to prevent lapses in its ability to observe the universe. The telescope, known for capturing stunning images of the cosmos for 34 years, traditionally used six gyroscopes for pointing and control. Over time, some of these gyroscopes have stopped working, with one causing the telescope to enter "safe mode" multiple times in recent months.

As a solution, the Hubble team has decided to operate the telescope using a single gyro, with another gyro as a backup. While this change may reduce efficiency and flexibility, the team aims to restore Hubble to routine observations by mid-June. Despite these challenges, NASA remains confident in Hubble's capabilities, expecting it to operate well into the mid-2030s.

The shift to a new way of operating demonstrates NASA's commitment to ensuring Hubble continues to contribute valuable insights into the universe, complementing the work of upcoming observatories.

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Vocabulary List:

1. **lapses** // (noun): Temporary failures or interruptions.
2. **gyroscopes** // (noun): Instruments used for measuring or maintaining orientation and angular velocity.
3. **safe mode** // (noun): A state where a device operates with basic functions to prevent further damage.
4. **efficiency** // (noun): The ability to accomplish a task with minimum wasted effort.
5. **insights** // (noun): Deep understandings or perceptions.
6. **observatories** // (noun): Places equipped to observe celestial objects and phenomena.

Vocabulary quizzes

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

1. Which of the following words means to exhibit or display something prominently?
Option: Efficiency
Option: Showcase
Option: Lapses
Option: Advancements
2. What term is used to describe the climate of a small or restricted area?
Option: Microclimate
Option: Plethora
Option: Cultish
Option: Optimized
3. Which geological feature is a large volcanic crater formed by a major eruption?
Option: Calderas
Option: Gyroscopes
Option: Expansion
Option: Struggling
4. Which term refers to a system of measurement based on the meter kilogram and second as units?
Option: Aspirational
Option: Geological
Option: Metric
Option: Reasoning
5. In computing what is the term for the state of an electronic device when it is operating with reduced



functionality?

- Option: Compatible
- Option: Observatories
- Option: Safe mode
- Option: Limitations

6. Which term describes regions on Earth that are located near the equator?

- Option: Equatorial
- Option: Consequences
- Option: Volcanoes
- Option: Remove

7. What do we call the clear understanding of a complex situation?

- Option: Omit
- Option: Expansion
- Option: Insights
- Option: Crack

8. Which term refers to the action of thinking about something in a logical sensible way?

- Option: Volcanoes
- Option: Reasoning
- Option: Intrigue
- Option: Prominently

9. What term describes having difficulty and making efforts to overcome a challenge?

- Option: Gyroscopes
- Option: Struggling
- Option: Achievements
- Option: Geological

10. Which word signifies progress improvements or developments?

- Option: Aspirational
- Option: Advancements
- Option: Clarity
- Option: Geological

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

11. For the software to work properly it needs to be _____ with your operating system.

12. Many young entrepreneurs have _____ goals of building successful global



businesses.

13. The company implemented new strategies to ensure its processes were _____
for maximum efficiency.

14. The study of rocks minerals and Earth's structure falls under the field of _____
sciences.

15. One major _____ of the current technology is its inability to handle large volumes of
data.

16. The new shopping mall offers a _____ of dining options ranging from fast food to fine
dining.

17. Many modern devices such as smartphones contain _____ for orientation and
stability purposes.

18. Every decision we make has potential _____ that we need to consider.

19. The astronomers used the latest telescopes at the _____ to study the newly
discovered comet.

20. Improving the company's processes led to increased _____ and higher overall
productivity.

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

21. The plot of the mystery novel was so captivating that it sparked curiosity and fascination in readers.
22. The art gallery decided to local talent by holding an exhibition for emerging artists.
23. The company's successful year marked a period of rapid growth and into new markets.



24. The followers of the group displayed behaviors that were considered overly devoted and exclusive leading to accusations of being .
25. The region is known for its active creating a unique landscape characterized by frequent eruptions.
26. The software developers worked hard to create an version of the application that would run smoothly on all devices.
27. Critical thinking and logical are essential skills for problem-solving and decision-making.
28. Despite its innovative features the device has certain that may affect its overall performance.
29. The artist's latest work was displayed in the center of the exhibition hall to draw attention to its intricate details.
30. The company's vision statement reflects its goals of becoming a leader in sustainable practices and social responsibility.

Answer

Multiple Choice: 1. Showcase 2. Microclimate 3. Calderas 4. Metric 5. Safe mode 6. Equatorial 7. Insights 8. Reasoning 9. Struggling 10. Advancements

Gap-Fill: 11. compatible 12. aspirational 13. optimized 14. geological 15. limitation 16. plethora 17. gyroscopes 18. consequences 19. observatories 20. efficiency

Matching sentence: 1. intrigue 2. showcase 3. expansion 4. cultish 5. volcanoes 6. optimized 7. reasoning 8. limitations 9. prominently 10. aspirational

CATEGORY

1. Sci/Tech - LEVEL2

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