



Surprising Discovery: Water Frost Found on Mars Volcanoes

Description

A new study has revealed a surprising discovery on Mars, as reported by CNN. The equatorial region of the planet is home to some of the tallest volcanoes in the solar system, including Olympus Mons, which is 16 miles high and 374 miles in diameter. These massive volcanoes are topped with large calderas, creating a unique microclimate inside them. Researchers have observed morning frost forming inside the calderas for the first time, indicating the presence of water on the Martian surface.

The discovery, made by a team of more than two dozen researchers, has intrigued scientists. The thin frost deposits found on the volcanoes amount to about 150,000 metric tons of water ice. This unexpected finding challenges previous beliefs about the distribution of water on Mars. Further research is planned to explore other volcanoes on the planet and investigate the Martian water cycle. The discovery has raised questions about the source of the water vapor forming the frost, adding to the mystery of Mars' geological history.

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Vocabulary List:



1. **Equatorial** // (adjective): Relating to or living near the equator.
2. **Volcanoes** // (noun): An opening in the Earth crust through which lava and gases erupt.
3. **Calderas** // (noun): Large volcanic crater typically formed by the collapse of a magma chamber.
4. **Microclimate** // (noun): Climate conditions in a small specific area that differ from the surrounding area.
5. **Metric** // (adjective): Relating to the metric system of measurement.
6. **Geological** // (adjective): Relating to the study of the Earth's structure, materials, and processes.

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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