



# Subterranean Oceans: Mars Holds Vast Water Reserves

## Description

Scientists discovered water beneath the surface of Mars using data from a NASA mission. The water is trapped in rocks deep underground and could fill oceans on Mars. The finding sheds light on Mars' geological history and a potential new habitat for life.

The data came from NASA's InSight lander, studying Mars from 2018 to 2022. The water, located 7-12 miles below the surface, poses challenges for future Mars exploration. However, it offers insights into Mars' past as a warmer, wetter planet.

The underground water reservoir could sustain life if accessed. InSight's data revealed the water likely filtered into the Martian crust. This discovery marks a significant step in understanding Mars' evolution and potential habitability.

The research suggests a deep layer of volcanic rock filled with liquid water on Mars. This finding opens up possibilities for future exploration and understanding of Mars' unique geology.

## Vocabulary List:

1. **Geological** /ˌdʒiːə'lɒdʒɪkəl/ (adjective): Relating to the study of the earth its structure and its history.
2. **Habitat** /'hæbɪtæt/ (noun): The natural environment in which a species or community of living organisms lives.
3. **Sustain** /sə'steɪn/ (verb): To support or maintain a process or condition.
4. **Exploration** /ˌɛk splə'reɪ ʃən/ (noun): The act of investigating or examining an area for new information.
5. **Reservoir** /'rezərˌvwar/ (noun): A large natural or artificial lake used as a source of water supply.
6. **Volcanic** /vɒl'kænɪk/ (adjective): Relating to or produced by a volcano.

## Vocabulary quizzes

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

1. What is the term for a temporary or permanent dismissal of employees from their jobs?

Option: A. Promotion

Option: B. Layoff

Option: C. Recognition

Option: D. Appreciation



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2. Which term is related to the study of Earth's structure materials and processes?
- Option: A. Psychological  
Option: B. Geological  
Option: C. Biological  
Option: D. Sociological
3. What title is awarded to the winner of a major competition or series of competitions?
- Option: A. Runner-up  
Option: B. Participant  
Option: C. Contender  
Option: D. Championship
4. Which term relates to being efficient with resources and not wasteful?
- Option: A. Luxurious  
Option: B. Economical  
Option: C. Extravagant  
Option: D. Lavish
5. What is the term for the state of being able to see or be seen?
- Option: A. Concealment  
Option: B. Camouflage  
Option: C. Invisibility  
Option: D. Visibility
6. What word means to maintain or support for an extended period of time?
- Option: A. Terminate  
Option: B. Sustain  
Option: C. Cease  
Option: D. Halt
7. Which term best describes lacking strength or power?
- Option: A. Robust  
Option: B. Weak  
Option: C. Mighty  
Option: D. Vigorous
8. What term refers to a series of events that are regularly repeated in the same order?
- Option: A. Anomaly  
Option: B. Cycle  
Option: C. Aberration  
Option: D. Disruption



9. What is the term for choices or alternatives that are available to choose from?

- Option: A. Requirements
- Option: B. Obligations
- Option: C. Options
- Option: D. Restrictions

10. Which term refers to the act of searching for information or resources?

- Option: A. Isolation
- Option: B. Exploration
- Option: C. Stagnation
- Option: D. Retention

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

11. In order to succeed hard work and determination are \_\_\_\_\_.

12. Continuous improvement and innovation lead to overall \_\_\_\_\_ in various fields.

13. Climate change has a significant \_\_\_\_\_ on the environment and ecosystems.

14. A dam is built to create a large \_\_\_\_\_ of water for irrigation and drinking purposes.

15. During tough economic times many businesses may find themselves \_\_\_\_\_ to stay afloat.

16. The island was formed as a result of past \_\_\_\_\_ activity.

17. The mesmerizing \_\_\_\_\_ lights are often visible in polar regions.

18. The water \_\_\_\_\_ involves evaporation condensation and precipitation.

19. Businesses need to constantly innovate to stay ahead of their \_\_\_\_\_.

20. Technological advancements have a profound \_\_\_\_\_ on how society functions.

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

21. The Amazon rainforest is a unique that is home to a diverse range of species.



22. The orchestra delivered an outstanding at the grand concert.
23. Constructive can help individuals improve their skills and abilities.
24. Studying the of ancient civilizations provides insights into past societies.
25. The new car design introduced by the company serves as a futuristic for innovation.
26. The annual meteor shower is a spectacular sight in the night sky.
27. The old bridge was deemed structurally and in need of immediate repair.
28. The museum showcases artifacts that reflect the cultural of a particular region.
29. It is important to offer constructive feedback rather than simply others without merit.
30. Scientific in the field of medicine have led to significant advancements in healthcare.

## Answer

**Multiple Choice:** 1. B. Layoff 2. B. Geological 3. D. Championship 4. B. Economical 5. D. Visibility 6. B. Sustain  
7. B. Weak 8. B. Cycle 9. C. Options 10. B. Exploration

**Gap-Fill:** 11. necessary 12. progress 13. impact 14. reservoir 15. struggling 16. volcanic 17. Aurora 18. cycle  
19. competitors 20. impact

**Matching sentence:** 1. Habitat 2. Performance 3. Criticism 4. History 5. Model 6. Perseid 7. Weak 8. History  
9. Criticize 10. Progress

## CATEGORY

1. Sci/Tech - LEVEL2

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