



Moon's Composition Revealed by Scientists: New Findings

Description

Guess what? Scientists have discovered that the Moon is not made of green cheese, as some people believed. A study in May 2023 revealed that the Moon has a solid core similar to iron, not molten as previously thought. This new finding helps us understand the Moon's history and the Solar System better.

Researchers led by astronomer Arthur Briaud used seismic data to study the Moon's interior. They found that the Moon's core is like Earth's, with a solid inner core and a fluid outer core. This affects the Moon's magnetic field and evolution.

Studies show that the Moon's core is about 15% of its total radius, with a density close to that of iron. These results support earlier findings and offer new insights into the Moon's structure.

Scientists hope to confirm these findings with more research, especially as we plan to return to the Moon soon. The study was published in the journal Nature in May 2023.

This information was first shared in May 2023.

Vocabulary List:

1. **Seismic** /'saɪz.mɪk/ (adjective): Relating to or caused by an earthquake or other vibration of the earth and its crust.
2. **Density** /'dɛn.sɪ.ti/ (noun): The degree of compactness of a substance.
3. **Evolution** /,i:və'lu:ʃən/ (noun): The gradual development of something especially from a simple to a more complex form.
4. **Core** /kɔ:r/ (noun): The central or most important part of something.
5. **Insights** /'ɪn.saɪts/ (noun): An accurate and deep understanding of someone or something.
6. **Structure** /'strʌk.tʃər/ (noun): The arrangement of and relations between the parts or elements of something complex.

Comprehension Questions

Multiple Choice

1. What was the surprising discovery made about the Moon in May 2023?



- Option: It is made of green cheese.
- Option: It has a solid core similar to iron.
- Option: It has a molten core.
- Option: It has no core.

2. Who led the team of researchers studying the Moon's interior?

- Option: Arthur Briaud
- Option: Galileo Galilei
- Option: Marie Curie
- Option: Isaac Newton

3. What percentage of the Moon's total radius is its core?

- Option: 5%
- Option: 10%
- Option: 15%
- Option: 20%

4. What journal published the study on the Moon's core in May 2023?

- Option: Science
- Option: Nature
- Option: Scientific American
- Option: National Geographic

5. How did scientists study the Moon's interior?

- Option: By sending a probe
- Option: Using seismic data
- Option: By conducting visual observations
- Option: Collecting rock samples

6. What does the Moon's core density closely resemble?

- Option: Gold
- Option: Air
- Option: Iron
- Option: Water

True-False

7. The Moon is made of green cheese, as some people believed.



8. The Moon's core density is different from that of iron.
9. The Moon's core is entirely molten.
10. The Moon has a solid inner core like Earth.
11. The study on the Moon's core was shared in October 2023.
12. Scientists plan to return to the Moon for further research.

Gap-Fill

13. Scientists discovered that the Moon's core is about _____ of its total radius.
14. The Moon's core density is close to that of _____.
15. The study on the Moon's core was published in the journal _____ in May 2023.
16. Astronomer Arthur Briaud led the team using _____ data to study the Moon's interior.
17. The Moon's core is similar to Earth's, with a solid inner core and a fluid _____ core.
18. The study on the Moon's core provides new insights into the Moon's _____.

Answer

Multiple Choice: 1. It has a solid core similar to iron. 2. Arthur Briaud 3. 15% 4. Nature 5. Using seismic data
6. Iron

True-False: 7. False 8. False 9. False 10. True 11. False 12. True

Gap-Fill: 13. 15% 14. iron 15. Nature 16. seismic 17. outer 18. structure

Answer

CATEGORY

1. Health - LEVEL2

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