



NASA to Ignite Fire on Moon, Sparking Astronaut Safety Concerns

Description

NASA is planning a new experiment on the Moon. They want to study how fire burns in the Moon's weak gravity. This is important for future missions where people may live on the Moon.

Fire on Earth works in a certain way. It needs gravity, air, and heat. But on the Moon, things change. The Moon's gravity is much lower than Earth's. Scientists think some materials could catch fire more easily there. This is important because small fires can become big quickly in a closed habitat on the Moon.

The experiment is called the Flammability Of Materials On The Moon (FM2). It will test four types of fuel on the lunar surface. This is the first time such tests will happen outside Earth. The FM2 experiment is set for late 2026. Scientists will use cameras and sensors to see how flames grow and spread.

Previous tests in space showed fires behave differently. Scientists want to understand how fire works on the Moon to keep astronauts safe. This research is a vital step for humans living beyond Earth.

Vocabulary List:

1. **experiment** //ɪk'spɛrɪmənt// (noun): A planned test to learn something new
2. **gravity** //ˈgrævɪti// (noun): Force that pulls things toward a planet
3. **flammability** //ˌflæməˈbɪləti// (noun): How easily a material can catch fire
4. **habitat** //ˈhæbətæt// (noun): Place where people or animals live
5. **lunar** //ˈlu:nər// (adjective): Related to the Moon or its surface
6. **sensors** //ˈsɛnsərz// (noun): Devices that detect or measure information

Comprehension Questions

Multiple Choice

1. What is the main focus of NASA's new experiment on the Moon?

- Option: Studying water resources
- Option: Understanding fire behavior
- Option: Testing new spacecraft
- Option: Analyzing soil samples



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2. What is the name of the experiment conducted by NASA?
- Option: Moon Fire Experiment
 - Option: FM2
 - Option: Lunar Flame Study
 - Option: Gravity Fire Test
3. How many types of fuel will be tested in the FM2 experiment?
- Option: Two
 - Option: Three
 - Option: Four
 - Option: Five
4. When is the FM2 experiment scheduled to take place?
- Option: 2024
 - Option: 2025
 - Option: 2026
 - Option: 2027
5. What is essential for fire to work on Earth?
- Option: Air and pressure
 - Option: Air and heat
 - Option: Gravity and wind
 - Option: Gravity, air, and heat
6. Why are small fires a concern in a closed habitat on the Moon?
- Option: They can spread slowly
 - Option: They can become big quickly
 - Option: They can be easily controlled
 - Option: They do not need oxygen

True-False

7. The FM2 experiment will be done for the first time outside of Earth.
8. Fires behave the same way on the Moon as they do on Earth.
9. NASA is studying fire behavior on the Moon to improve astronaut safety.



10. The Moon's gravity is higher than that of Earth.
11. The FM2 experiment will involve using cameras and sensors.
12. The primary goal of the FM2 experiment is to explore lunar soil.

Gap-Fill

13. NASA is planning a new experiment on the Moon to study how fire burns in the Moon's weak gravity. This is important for future missions where people may live on the Moon. Fire on Earth works in a certain way. It needs gravity, air, and heat. But on the Moon, things change. The Moon's gravity is much lower than Earth's. Scientists think some materials could catch fire more easily there. This is important because small fires can become big quickly in a closed habitat on the Moon. The experiment is called the Flammability Of Materials On The Moon (FM2) and it will test four types of fuel on the lunar surface. This is the first time such tests will happen outside _____.
14. The FM2 experiment is set for late _____.
15. Previous tests in space showed fires behave _____.
16. Scientists want to understand how fire works on the Moon to keep _____ safe.
17. The research in the FM2 experiment is a vital step for humans living beyond _____.
18. Scientists will use cameras and _____ to see how flames grow and spread.

Answer

- Multiple Choice:** 1. Understanding fire behavior 2. FM2 3. Four 4. 2026 5. Gravity, air, and heat 6. They can become big quickly
- True-False:** 7. True 8. False 9. True 10. False 11. True 12. False
- Gap-Fill:** 13. Earth 14. 2026 15. differently 16. astronauts 18. sensors



Vocabulary quizzes

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

1. What does the term 'release' typically refer to in software development?
Option: The launch of a product
Option: The end of a project
Option: The beginning of development
Option: The testing phase
2. What is the minimum requirement for a computer to run most modern games?
Option: Low-end graphics card
Option: 8 GB RAM
Option: Windows 7
Option: High-end processor
3. Which factor primarily affects the performance of a video game?
Option: Graphics quality
Option: Soundtrack
Option: Storyline
Option: Character development
4. Which type of graphics is generally considered the highest quality?
Option: 2D
Option: 3D
Option: Pixel art
Option: Vector
5. Which type of gaming setup is typically the most expensive?
Option: Console
Option: High-end gaming PC
Option: Mobile
Option: Budget laptop
6. What does the term 'species' refer to in biology?
Option: A specific group of organisms
Option: The entire ecosystem
Option: A single organism
Option: A group of non-living things
7. What is typically announced during a game developer's presentation?



- Option: Game mechanics
- Option: Release date
- Option: Character names
- Option: All of the above

8. What is a common model used for accessing gaming content today?

- Option: One-time purchase
- Option: Free-to-play
- Option: Subscription-based
- Option: Pay-per-download

9. What does the term 'lunar' refer to?

- Option: Related to the sun
- Option: Related to the moon
- Option: Related to the earth
- Option: Related to weather

10. What does a 'crossover' in games typically involve?

- Option: Different game genres
- Option: Multiple franchises
- Option: Single-player and multiplayer modes
- Option: All of the above

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

11. The screen's _____ is important for displaying high-quality graphics.
12. A game _____ is responsible for creating and implementing game content.
13. Every species has a specific _____ where it can thrive.
14. Scientists often conduct an _____ to test their hypotheses.
15. _____ affects how objects move in space.
16. The software was released in an _____ state and needed immediate patches.
17. Players need a subscription to _____ premium content.
18. The virus could _____ quickly if not contained.



19. The developers _____ that the game would launch next month.
20. The _____ of materials is an important factor in safety regulations.

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

21. Bright colors and flashing lights tend to attract players to arcade games.
22. Games are often released on multiple platforms to reach a wider audience.
23. The story of the game progresses with each chapter that players complete.
24. Each game has specific hardware requirements necessary for optimal performance.
25. The performance of the game can drastically affect the player's experience.
26. High-end gaming equipment can be quite expensive for average consumers.
27. Players must strategize to survive in challenging environments within the game.
28. Advanced graphics can enhance the realism of video game worlds.
29. The release of the game was highly anticipated by fans worldwide.
30. The game features multiple species of creatures that inhabit its virtual world.

Answer

Multiple Choice: 1. The launch of a product 2. 8 GB RAM 3. Graphics quality 4. 3D 5. High-end gaming PC 6. A specific group of organisms 7. All of the above 8. Subscription-based 9. Related to the moon 10.

Multiple franchises

Gap-Fill: 11. resolution 12. developer 13. habitat 14. experiment 15. Gravity 16. unstable 17. access 18. spread 19. confirmed 20. flammability

Matching sentence: 1. attract 2. platforms 3. chapter 4. requirements 5. performance 6. expensive 7. survive 8. graphics 9. release 10. species

CATEGORY

1. Sci/Tech - LEVEL1

POST TAG



1. astronaut safety
2. ESL learning
3. esl news
4. fire
5. Level 1
6. Moon
7. NASA

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