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# NASA Cancels Crewed Landing for Artemis III Mission

## Description

Last week, NASA announced that its Artemis II mission will be delayed until at least April due to problems with helium tanks. Additionally, it has revealed that the Artemis III mission will no longer aim to land astronauts on the Moon as initially planned.

Artemis III, now set for 2027, will be another crewed flight without a lunar landing. Following this, Artemis IV is scheduled for a crewed lander mission in 2028. This change was anticipated, especially after a critical report from the Aerospace Safety Advisory Panel (ASAP), which stated that undergoing Artemis III as planned poses significant risks.

The report highlighted several concerns, including issues with the heat shield on Artemis I, which suffered more damage than expected during re-entry. Despite efforts to identify a solution, NASA could not reassure the panel that it would resolve the problem in time.

More significantly, ambitious technologies needed for Artemis III, such as the Human Landing System (HLS), are lagging. The HLS is designed to transport astronauts to and from the lunar surface. NASA's contract with SpaceX to develop this system has not produced the safety and capabilities required, prompting NASA to reconsider the project.

The ASAP report did not express confidence in launching a crewed lunar landing mission in the near future, particularly with the 2028 target feeling increasingly unrealistic. Moving forward, we will monitor updates regarding the Artemis II launch and the future developments of Artemis IV.

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## Vocabulary List:

1. **Delayed** /dɪˈleɪd/ (verb): Postponed or slowed down in time.
2. **Mission** /ˈmɪʃ.ən/ (noun): A specific task or goal to achieve.
3. **Astronauts** /ˈæs.trə.nɔ:t/ (noun): People trained to travel in space.
4. **Lunar** /ˈlu:.nər/ (adjective): Related to the Moon.
5. **Crew** /kru:/ (noun): A group of people working together.
6. **Landing** /ˈlændɪŋ/ (noun): Touching down on a surface.

## Comprehension Questions



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## Multiple Choice

1. What is the reason for the delay of the Artemis II mission?
  - Option: Issues with rocket fuel
  - Option: Problems with helium tanks
  - Option: Weather conditions
  - Option: Technical difficulties with spacecraft
  
2. What year is Artemis III now set to occur?
  - Option: 2025
  - Option: 2026
  - Option: 2027
  - Option: 2028
  
3. What is the primary purpose of the Human Landing System (HLS)?
  - Option: To build lunar bases
  - Option: To transport astronauts to and from the lunar surface
  - Option: To conduct scientific experiments
  - Option: To provide communication systems
  
4. What significant risks were highlighted by the Aerospace Safety Advisory Panel (ASAP)?
  - Option: Food supply issues
  - Option: Significant risks of undergoing Artemis III as planned
  - Option: Space debris
  - Option: Weather disturbances
  
5. What year is Artemis IV scheduled for?
  - Option: 2026
  - Option: 2027
  - Option: 2028
  - Option: 2029
  
6. Which company is NASA's contract with for the development of the Human Landing System?
  - Option: Boeing
  - Option: SpaceX
  - Option: Lockheed Martin
  - Option: Blue Origin



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**True-False**

7. Artemis III will now aim to land astronauts on the Moon.
8. The ASAP report is confident about launching a crewed lunar landing mission in the near future.
9. NASA is experiencing delays due to problems with helium tanks.
10. The heat shield on Artemis I suffered less damage than expected during re-entry.
11. Artemis II is scheduled to launch before April 2024.
12. Artemis IV is expected to be a crewed lander mission.

**Gap-Fill**

13. Artemis II mission will be delayed until at least \_\_\_\_\_ due to problems with helium tanks.
14. Artemis III, set for 2027, will be another crewed flight without a lunar \_\_\_\_\_ .
15. The report from the Aerospace Safety Advisory Panel (ASAP) stated that \_\_\_\_\_  
Artemis III as planned poses significant risks.
16. The Human Landing System (HLS) is designed to transport astronauts to and from the lunar \_\_\_\_\_ .
17. NASA's contract with SpaceX to develop the HLS has not produced the safety and \_\_\_\_\_ required.
18. The ASAP report did not express confidence in launching a crewed lunar \_\_\_\_\_  
mission in the near future.



## Answer

**Multiple Choice:** 1. Problems with helium tanks 2. 2027 3. To transport astronauts to and from the lunar surface 4. Significant risks of undergoing Artemis III as planned 5. 2028 6. SpaceX

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

**Gap-Fill:** 13. April 14. landing 15. undergoing 16. surface 17. capabilities

## Vocabulary quizzes

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

1. What is the primary function of chlorophyll in plants?

Option: Photosynthesis

Option: Respiration

Option: Nutrient absorption

Option: Water storage

2. What is the primary role of astronauts in a space mission?

Option: Drive the rocket

Option: Conduct research and experiments

Option: Develop software

Option: Build spacecraft

3. What is a meteorite?

Option: A glowing comet

Option: A space rock that lands on Earth

Option: An asteroid belt

Option: A satellite

4. What does high-resolution typically refer to in imaging?

Option: Low-quality images

Option: Detailed and clear images

Option: Black and white images

Option: Blurry images

5. Which term describes modern humans and their closest extinct relatives?



- Option: Primate
- Option: Hominin
- Option: Anatomically modern human
- Option: Neanderthal

6. Fossils provide evidence of what?

- Option: Climate change
- Option: Ancient life forms
- Option: Soil composition
- Option: Water sources

7. In archaeology what does reconstruction typically involve?

- Option: Building new structures
- Option: Restoring ancient artifacts
- Option: Creating a visual model of past events
- Option: Excavating new sites

8. What is the primary purpose of the Voyager spacecraft?

- Option: To study Mars
- Option: To explore the outer Solar System
- Option: To orbit Earth
- Option: To land on the Moon

9. What is a critical phase in a space mission that involves returning to Earth?

- Option: Liftoff
- Option: Launch
- Option: Landing
- Option: Docking

10. What is the primary goal of detecting in scientific research?

- Option: Identifying unknown variables
- Option: Acquiring data
- Option: Measuring distances
- Option: Collecting samples

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

11. In a criminal case \_\_\_\_\_ are responsible for presenting the case against the defendant.



12. A \_\_\_\_\_ is commonly used in construction sites to dig trenches and move soil.
13. A \_\_\_\_\_ orbits the Earth and collects various types of data for weather forecasting.
14. The \_\_\_\_\_ holds and protects the brain within the skull.
15. The students were \_\_\_\_\_ when they learned about their upcoming field trip to the space center.
16. The gold \_\_\_\_\_ found in the stream was worth a small fortune.
17. The space \_\_\_\_\_ aimed to explore the possibility of life on other planets.
18. Once the satellite was \_\_\_\_\_ it began transmitting data back to Earth.
19. In a scientific experiment \_\_\_\_\_ are used as benchmarks to compare with experimental results.
20. The geologist examined the \_\_\_\_\_ to determine its age and composition.

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

21. The skull protects the brain and supports the structures of the face.
22. Plants use chlorophyll to absorb light energy for photosynthesis.
23. High-resolution images allow scientists to study details that are not visible in standard images.
24. The crew of the spacecraft will conduct research during their time in orbit.
25. The study of hominin fossils provides insight into human evolution.
26. Fossils can reveal information about ancient environments and life forms.
27. After the excavation the artifacts were carefully reburied to preserve their condition.
28. The mission to Mars aims to find signs of past life on the planet.
29. Detecting faint signals from space is crucial for astronomy research.



30. The landing of the spacecraft was successful marking a milestone in the mission.

## Answer

**Multiple Choice:** 1. Photosynthesis 2. Conduct research and experiments 3. A space rock that lands on Earth 4. Detailed and clear images 5. Hominin 6. Ancient life forms 7. Creating a visual model of past events 8. To explore the outer Solar System 9. Landing 10. Acquiring data

**Gap-Fill:** 11. prosecutors 12. backhoe 13. satellite 14. braincase 15. excited 16. nugget 17. mission 18. operational 19. control samples 20. rock

**Matching sentence:** 1. skull 2. chlorophyll 3. high-resolution 4. crew 5. hominin 6. fossils 7. reburied 8. mission 9. detecting 10. landing

## CATEGORY

1. Sci/Tech - LEVEL4

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