



Artemis II Crew Escapes Earth Orbit, Journey to Moon Begins

Description

The Artemis II astronauts left Earth orbit and are now heading towards the moon. They activated their main engine for almost six minutes, reaching a speed of 24,500 mph. This speed is necessary to escape Earth's gravity.

The crew, including commander Reid Wiseman, Victor Glover, Christina Koch, and Canadian astronaut Jeremy Hansen, managed a key engine firing called "trans-lunar injection" (TLI). This maneuver increased their speed by 867 mph. The engine ignited at 7:49 p.m. EDT at an altitude of 115 miles. After this, the Orion capsule embarked on a free-return path around the moon, which will allow the astronauts to return to Earth without further major engine burns.

Hansen communicated with mission control after the burn, expressing the crew's excitement about their journey. He reminded everyone involved in the Artemis program of their hard work and determination. NASA Administrator Jared Isaacman watched from mission control in Houston. He aims to make moon flights happen twice a year, establishing a U.S. base near the moon's south pole.

After their launch from Kennedy Space Center, the crew tested the Orion capsule's systems and adjusted their orbit for the upcoming loop around the moon. NASA's Mission Management Team approved the TLI burn after confirming the spacecraft's performance. The Artemis II mission is significant as it prepares astronauts for future lunar landings, expected to start in 2028.

Vocabulary List:

1. **orbit** //ˈɔːrbɪt// (noun): the curved path around a planet or star
2. **maneuver** //məˈnuvər// (noun): a planned movement or action to achieve something
3. **ignited** //ɪgˈnaɪtɪd// (verb): started to burn fuel and produce thrust
4. **altitude** //ˈæltɪ.tud// (noun): height above the ground or above sea level
5. **embarked** //ɪmˈbɑːkt// (verb): began a journey or started a new trip
6. **significant** //sɪgˈnɪfɪkənt// (adjective): important or large enough to notice

Comprehension Questions



Multiple Choice

1. What speed did the Artemis II astronauts reach to escape Earth's gravity?
 - Option: 12,000 mph
 - Option: 20,000 mph
 - Option: 24,500 mph
 - Option: 30,000 mph
2. Who is the commander of the Artemis II crew?
 - Option: Victor Glover
 - Option: Christina Koch
 - Option: Reid Wiseman
 - Option: Jeremy Hansen
3. What does TLI stand for in the context of the Artemis II mission?
 - Option: Trans-lunar ignition
 - Option: Trans-lunar injection
 - Option: Trajectory lunar initiative
 - Option: Total lunar impact
4. At what altitude was the TLI burn ignited?
 - Option: 100 miles
 - Option: 115 miles
 - Option: 150 miles
 - Option: 200 miles
5. What is the goal of NASA Administrator Jared Isaacman regarding moon flights?
 - Option: One flight per year
 - Option: Two flights per year
 - Option: Three flights per year
 - Option: No plans for moon flights
6. What is the expected start year for future lunar landings according to the Artemis II mission's significance?
 - Option: 2025
 - Option: 2026
 - Option: 2027
 - Option: 2028



True-False

7. The Artemis II astronauts left Earth orbit and are traveling to Mars.
8. The crew includes a Canadian astronaut named Jeremy Hansen.
9. The Orion capsule is designed to allow astronauts to return to Earth without any engine burns.
10. The TLI maneuver increased the astronauts' speed by 867 mph.
11. NASA's Mission Management Team disapproved of the TLI burn due to spacecraft performance issues.
12. The Artemis II mission seeks to establish a U.S. base near the moon's north pole.

Gap-Fill

13. The Artemis II astronauts reached a speed of 24,500 mph to escape _____ gravity.
14. The TLI burn was ignited at 7:49 p.m. EDT at an altitude of _____ miles.
15. The Orion capsule embarked on a _____-return path around the moon.
16. The Artemis program aims for astronauts to start future lunar landings in _____.
17. NASA Administrator Jared Isaacman watched from mission control in _____.
18. The engine firing helped to increase speed by _____ mph.

Answer

Multiple Choice: 1. 24,500 mph 2. Reid Wiseman 3. Trans-lunar injection 4. 115 miles 5. Two flights per year
6. 2028

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

Gap-Fill: 13. Earth's 14. 115 15. free 16. 2028 17. Houston 18. 867

Vocabulary quizzes



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

1. What technology allows users to interact directly with what is displayed?
Option: Keyboards
Option: Mice
Option: Touchscreens
Option: Trackpads
2. Which term describes something that provides great comfort but is not necessary?
Option: Basic
Option: Essential
Option: Luxury
Option: Standard
3. Which speed classification refers to speeds greater than five times the speed of sound?
Option: Subsonic
Option: Supersonic
Option: Hypersonic
Option: Transonic
4. What type of force is responsible for the attraction between masses?
Option: Electromagnetic
Option: Nuclear
Option: Gravitational
Option: Frictional
5. What term refers to beginning a journey or project?
Option: Disembarked
Option: Embarked
Option: Exited
Option: Completed
6. Which word describes something that is important or meaningful?
Option: Trivial
Option: Negligible
Option: Insignificant
Option: Significant
7. What is the path an object takes while moving around another object in space?
Option: Rotation
Option: Translation
Option: Orbit



Option: Revolution

8. Which term describes a state of losing water in the body?

Option: Hydrated

Option: Dehydrated

Option: Saturated

Option: Moist

9. What do we call the small celestial bodies that create streaks of light when they enter Earth's atmosphere?

Option: Asteroids

Option: Comets

Option: Meteors

Option: Planets

10. Which term refers to the ability to move or be moved freely and easily?

Option: Immobility

Option: Mobility

Option: Stagnation

Option: Static

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

11. The astronauts received various _____ to execute during their mission.

12. The _____ protects Earth from harmful solar radiation.

13. The _____ of the new equipment took several days to complete.

14. The presentation began with an _____ of the project.

15. The chef employed various _____ to enhance the flavors of the dish.

16. The _____ glassware must be handled with care.

17. The spacecraft performed a _____ of the planet before proceeding to orbit.

18. The spacecraft _____ the atmosphere at a high velocity.

19. The power plant produces several hundred _____ of electricity.



20. The technology has advanced faster than its _____ in other countries.

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

21. The artist's style is known for its distinctiveness and creativity.
22. The pilot skillfully adjusted the aircraft's position and direction.
23. The team successfully started the engines for the rocket launch.
24. The group prepared for their journey to the International Space Station.
25. We need to change the settings to optimize the performance of the machine.
26. The discovery of water on Mars opened new possibilities for human exploration.
27. The airplane ascended to a height where the air was thinner.
28. The software creates a virtual environment for user training.
29. The committee is evaluating its previous decisions based on new information.
30. This research plays a crucial role in understanding climate change.

Answer

Multiple Choice: 1. Touchscreens 2. Luxury 3. Hypersonic 4. Gravitational 5. Embarked 6. Significant 7. Orbit 8. Dehydrated 9. Meteors 10. Mobility

Gap-Fill: 11. commands 12. atmosphere 13. installation 14. overview 15. techniques 16. fragile 17. flyby 18. re-enters 19. gigawatts 20. counterparts

Matching sentence: 1. uniqueness 2. maneuver 3. ignited 4. astronauts 5. adjust 6. significance 7. altitude 8. simulates 9. reconsidering 10. significant

CATEGORY

1. Sci/Tech - LEVEL3

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5. moon mission

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