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## Artemis II Crew Leaves Earth's Orbit En Route to Moon

### Description

The Artemis II astronauts left Earth and went to the moon on Thursday. They used their main engine to go very fast, reaching 24,500 mph. This speed is needed to escape Earth's pull.

The crew included Reid Wiseman, Victor Glover, Christina Koch, and Jeremy Hansen from Canada. They carefully checked their engine firing, which added 867 mph to their speed. The engine ran for nearly six minutes at a high point of 115 miles above Earth. After the engine stopped, their spacecraft was on a path that would take them around the moon and back to Earth.

Hansen shared the crew's excitement with mission control in Houston. He said they felt the support of everyone who worked on the Artemis project. Hansen also mentioned the view of Earth from space.

NASA plans to have more moon flights in the future. Artemis II is an important mission. It helps test the spacecraft and plans for future landings on the moon. NASA wants to land astronauts near the moon's south pole by 2028, with more flights planned next year.

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### Vocabulary List:

1. **engine** //ˈɛn.dʒɪn// (noun): machine that makes power to move things
2. **escape** //ɪˈskeɪp// (verb): get away from something dangerous or strong
3. **firing** //ˈfaɪrɪŋ// (noun): the moment a rocket engine is turned on
4. **spacecraft** //ˈspeɪs.kræft// (noun): a vehicle made to travel in space
5. **mission** //ˈmɪʃən// (noun): an important trip with a specific goal
6. **support** //səˈpɔrt// (noun): help, encouragement, or approval from other people

## Comprehension Questions

### Multiple Choice

1. How fast did the Artemis II astronauts travel to escape Earth's pull?

Option: 24,500 mph

Option: 20,000 mph

Option: 18,000 mph



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Option: 30,000 mph

2. Which astronaut is from Canada?

- Option: Reid Wiseman
- Option: Victor Glover
- Option: Christina Koch
- Option: Jeremy Hansen

3. How long did the engine run during the launch?

- Option: Three minutes
- Option: Four minutes
- Option: Five minutes
- Option: Nearly six minutes

4. What height did the spacecraft reach above Earth during the launch?

- Option: 100 miles
- Option: 115 miles
- Option: 120 miles
- Option: 150 miles

5. What is the main goal of the Artemis II mission?

- Option: To land on Mars
- Option: To test the spacecraft for future moon landings
- Option: To establish a space station
- Option: To collect samples from asteroids

6. By what year does NASA plan to land astronauts near the moon's south pole?

- Option: 2024
- Option: 2026
- Option: 2028
- Option: 2030

### **True-False**

7. Artemis II astronauts left Earth on Wednesday.

8. The Artemis II mission includes astronauts from various countries.



9. The crew felt isolated during their journey.
10. NASA plans to have more moon flights in the future.
11. Jeremy Hansen is the only Canadian astronaut on the mission.
12. The spacecraft's engine added 867 mph to their speed.

### Gap-Fill

13. The Artemis II astronauts reached Earth's pull at a speed of \_\_\_\_\_ mph.
14. The crew included Reid Wiseman, Victor Glover, Christina Koch, and \_\_\_\_\_ Hansen.
15. The engine ran for nearly \_\_\_\_\_ minutes at a high point of 115 miles above Earth.
16. Hansen shared the crew's excitement with mission control in \_\_\_\_\_.
17. NASA wants to land astronauts near the moon's \_\_\_\_\_ pole by 2028.
18. The spacecraft's engine added \_\_\_\_\_ mph to their speed.

### Answer

**Multiple Choice:** 1. 24,500 mph 2. Jeremy Hansen 3. Nearly six minutes 4. 115 miles 5. To test the spacecraft for future moon landings 6. 2028

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

**Gap-Fill:** 13. 24,500 14. Jeremy 15. six 16. Houston 17. south 18. 867

### Vocabulary quizzes

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

1. What is often used to explore outer space?



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- Option: Submarine  
Option: Spacecraft  
Option: Helicopter  
Option: Airplane
2. What term is used to describe a specific task or goal in space exploration?  
Option: Project  
Option: Operation  
Option: Mission  
Option: Assignment
3. What do scientists rely on to gather data from space?  
Option: Experiments  
Option: Observations  
Option: Tests  
Option: Surveys
4. What term describes speeds greater than five times the speed of sound?  
Option: Subsonic  
Option: Supersonic  
Option: Hypersonic  
Option: Transonic
5. What is the primary component that provides thrust for a spacecraft?  
Option: Wing  
Option: Engine  
Option: Control system  
Option: Fuel
6. What is the term used to describe the speed of sound in air?  
Option: Kilometers per hour  
Option: Mach  
Option: Time  
Option: Velocity
7. What is the term for a material that has lost moisture?  
Option: Overhydrated  
Option: Dehydrated  
Option: Saturated  
Option: Liquid
8. What type of presentation showcases the capabilities of a product?  
Option: Lecture



- Option: Workshop
- Option: Demo
- Option: Course

9. What action is taken to initiate the propulsion of a rocket?

- Option: Launching
- Option: Firing
- Option: Igniting
- Option: Starting

10. What is a gathering for hands-on activities and discussions called?

- Option: Conference
- Option: Webinar
- Option: Workshop
- Option: Seminar

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

11. The latest \_\_\_\_\_ was successfully launched into orbit.
12. NASA's next \_\_\_\_\_ aims to explore the surface of Mars.
13. The \_\_\_\_\_ taken by the telescope revealed new stars.
14. The prototype test was conducted at \_\_\_\_\_ speeds.
15. After the upgrade, the \_\_\_\_\_ operates more efficiently.
16. The aircraft flew at a speed of 2.5 \_\_\_\_\_.
17. The technician reviewed the \_\_\_\_\_ samples collected from the planet.
18. The company held a \_\_\_\_\_ to showcase their new product.
19. The team practiced \_\_\_\_\_ the engines in a controlled environment.
20. Participants learned a lot at the recent science \_\_\_\_\_ on space exploration.

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

21. The spacecraft was designed to withstand extreme temperatures during re-entry.



22. The mission successfully gathered data from the asteroid belt.
23. The observations from the satellite provided crucial information about climate change.
24. Hypersonic technology is being developed to enhance flight speed dramatically.
25. The engine of the rocket was tested multiple times for reliability.
26. Traveling at Mach 3 is an incredible achievement for any aircraft.
27. The dehydrated food supplies were ideal for long-duration space missions.
28. The demo showcased the innovative features of the new rover.
29. The firing of the thrusters allowed the spacecraft to change its trajectory.
30. The workshop included hands-on activities related to rocket science.

## Answer

**Multiple Choice:** 1. Spacecraft 2. Mission 3. Observations 4. Hypersonic 5. Engine 6. Mach 7. Dehydrated 8. Demo 9. Firing 10. Workshop

**Gap-Fill:** 11. spacecraft 12. mission 13. observations 14. hypersonic 15. engine 16. Mach 17. dehydrated 18. demo 19. firing 20. workshop

**Matching sentence:** 1. spacecraft 2. mission 3. observations 4. hypersonic 5. engine 6. Mach 7. dehydrated 8. demo 9. firing 10. workshop

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**Date Created**

2026/04/03

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