



NASA to Launch Crewed Artemis 2 Mission to Moon

Description

NASA is set to launch its first crewed mission beyond low Earth orbit in over 53 years. On Wednesday evening, four astronauts will begin the Artemis 2 mission, which is intended to orbit the Moon and return to Earth. This mission marks a significant step toward future human exploration of the Moon and Mars.

The mission is led by Reid Wiseman, alongside fellow NASA astronauts Victor Glover and Christina Koch, and Canada's Jeremy Hansen. According to NASA Associate Administrator Amit Kshatriya, this flight is crucial for the "campaign" of establishing lunar landings and a base on the Moon, followed by deeper space exploration.

The countdown for the launch officially started at 4:44 p.m. EDT on Monday, with final preparations ongoing. Launch Director Charlie Blackwell-Thompson will assess readiness for the fueling of the massive 322-foot Space Launch System rocket on Wednesday morning. The launch is expected at 6:24 p.m. EDT during a two-hour window.

The 45th Weather Squadron predicts a 20 percent chance of weather issues during the launch. Although isolated showers may occur, Launch Weather Officer Mark Burger believes there will be enough clear conditions for a successful launch. He stated that the risk of weather problems is low, making conditions "very much 'go'."

If the launch proceeds smoothly, the crew will prepare for liftoff by getting into their flight suits around 5.5 hours beforehand. After final farewells with family, they will travel to the launch pad, where a closeout crew will help them board the Orion spacecraft, named 'Integrity.'

Following the launch, the mission will include key maneuvers to establish an orbit for their journey to the Moon. By Thursday, NASA will decide if the spacecraft is prepared for the trans-lunar injection burn, further committing the crew to their lunar adventure.

Vocabulary List:

1. **crewed** //kru:d// (adjective): with people on board the vehicle
2. **orbit** //ˈɔrbit// (verb): to travel around a planet or star
3. **assess** //ə'ses// (verb): to judge how good or ready something is
4. **fueling** //ˈfju:əlɪŋ// (noun): putting fuel into a rocket or vehicle
5. **maneuvers** //mə'nu:vərz// (noun): careful or planned movements to control something
6. **countdown** //ˈkaʊn.daʊn// (noun): the count of time before an event



Comprehension Questions

Multiple Choice

1. What is the name of NASA's first crewed mission beyond low Earth orbit in over 53 years?
Option: Artemis 1
Option: Artemis 2
Option: Apollo 11
Option: Explorer 5
2. Who is the mission leader for Artemis 2?
Option: Victor Glover
Option: Reid Wiseman
Option: Christina Koch
Option: Jeremy Hansen
3. What time is the launch of Artemis 2 expected?
Option: 4:44 p.m. EDT
Option: 6:24 p.m. EDT
Option: 5:30 p.m. EDT
Option: 7:00 p.m. EDT
4. Which team is responsible for monitoring the weather during the launch?
Option: NASA Space Network
Option: Ground Control Team
Option: 45th Weather Squadron
Option: Mission Control
5. How long before liftoff do the crew members don their flight suits?
Option: 3 hours
Option: 5.5 hours
Option: 1 hour
Option: 10 hours
6. What is the name of the spacecraft that the crew will board?
Option: Discovery



- Option: Integrity
- Option: Endeavour
- Option: Orion

True-False

- 7. Artemis 2 is intended to orbit Mars and return to Earth.
- 8. The launch is scheduled for a two-hour window.
- 9. The crew will travel to the launch pad after being in their flight suits.
- 10. Reid Wiseman is assisted by only American astronauts.
- 11. Amit Kshatriya is the NASA Associate Administrator involved with Artemis 2.
- 12. The predicted chance of weather issues during the launch is 50 percent.

Gap-Fill

13. NASA is launching its first crewed mission beyond low Earth orbit in over 53 years on

_____.

14. The mission is crucial for establishing lunar landings and a base on the Moon and deeper space

_____.

15. Launch Director Charlie Blackwell-Thompson will assess readiness for _____

on Wednesday morning.

16. The crew will prepare for liftoff by getting into their flight suits around _____

hours beforehand.



17. Following the launch, key maneuvers will establish an orbit for their journey to the _____.

18. By Thursday, NASA will decide if the spacecraft is prepared for the trans-lunar _____ burn.

Answer

Multiple Choice: 1. Artemis 2 2. Reid Wiseman 3. 6:24 p.m. EDT 4. 45th Weather Squadron 5. 5.5 hours
6. Integrity

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

Gap-Fill: 13. Wednesday evening 14. exploration 15. fueling 16. 5.5 17. Moon 18. injection

Vocabulary quizzes

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

1. What process describes the end of a species on Earth?

- Option: Evolution
- Option: Extinction
- Option: Adaptation
- Option: Migration

2. What type of processes in the body relate to metabolism?

- Option: Mechanical
- Option: Metabolic
- Option: Chemical
- Option: Physical

3. What term describes the path an object takes as it moves around another object in space?

- Option: Rotation
- Option: Orbit
- Option: Revolution
- Option: Transition

4. What are released pollutants into the atmosphere commonly referred to as?

- Option: Outflows



- Option: Emissions
- Option: Discharges
- Option: Exhausts

5. What word describes the ability to recover from difficult situations?

- Option: Weakness
- Option: Failure
- Option: Resilience
- Option: Fragility

6. What adjective describes someone who is skillful with their hands?

- Option: Clumsy
- Option: Awkward
- Option: Dexterous
- Option: Fumbling

7. What term means to force something out?

- Option: Inhale
- Option: Compel
- Option: Expel
- Option: Retain

8. What is the term for experiences that fully engage one's senses?

- Option: Dull
- Option: Boring
- Option: Immersive
- Option: Superficial

9. What term describes the action of providing energy for something?

- Option: Cooling
- Option: Fueling
- Option: Hindering
- Option: Stalling

10. What term relates to mental processes such as perception and memory?

- Option: Physical
- Option: Emotional
- Option: Social
- Option: Cognitive

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



11. The gas was heated until it became _____, reaching extreme temperatures.
12. The pilot executed a series of _____ to safely land the aircraft.
13. Before the rocket launch, the team initiated a _____ to ensure everything was ready.
14. Scientists study a _____ to understand the history of life on Earth.
15. Many people experience _____ before taking an important exam.
16. The _____ worked tirelessly to prepare the ship for its next voyage.
17. The _____ of water from the dam must be carefully regulated.
18. The caterpillar will _____ into a butterfly.
19. The organization established a _____ to define roles and responsibilities.
20. The woolly mammoth is an example of a species that is _____ today.

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



21. The music album is a collection of various artists' best hits, making it a perfect compilation.
22. The community came together to mourn the loss of their beloved leader.
23. The car's mechanics are vital for ensuring it operates smoothly and efficiently.
24. Vaccination helps the body become immune to certain diseases.
25. The process of fueling the rocket required precision and timing.
26. The velocity of the spacecraft increased as it entered the gravitational field of the planet.
27. The volcano has been erupting for several days, spewing ash into the atmosphere.
28. Many individuals experience anxiety during stressful situations or major life changes.
29. Cognitive therapy is focused on changing unhelpful thought patterns.
30. The community showed incredible resilience in the face of disaster and rebuilt their homes.

Answer

Multiple Choice: 1. Extinction 2. Metabolic 3. Orbit 4. Emissions 5. Resilience 6. Dexterous 7. Expel
8. Immersive 9. Fueling 10. Cognitive

Gap-Fill: 11. superheated 12. maneuvers 13. countdown 14. fossil 15. anxiety 16. crew 17. outflow
18. transform 19. hierarchy 20. extinct

Matching sentence: 1. compilations 2. mourn 3. mechanics 4. immune 5. fueling 6. velocity 7. erupting
8. anxiety 9. cognitive 10. resilience

CATEGORY

1. Sci/Tech - LEVEL5

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