



First civilian spacewalk launched by SpaceX's Polaris Dawn mission

Description

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SpaceX launched the Polaris Dawn mission for the first civilian spacewalk. The crew will spend up to five days in orbit around Earth. Two members will do a spacewalk on the third day. The whole spacecraft will have no air for about 2 hours during the walk. This is different from other spacewalks. The spacecraft has no airlock like in the 1960s and 1970s. The crew are private civilians, not government astronauts. The mission is risky because the spacesuits are new. Also, they will go further from Earth than anyone since 1972.



The commander of the mission is Jared Isaacman. The crew includes a retired US Air Force pilot and two

SpaceX engineers. The spacecraft, Resilience, launched on a Falcon 9 rocket. The rocket's first stage landed back on Earth. SpaceX's Crew Dragon capsules are also used for other missions, like ferrying astronauts to the International Space Station.

Vocabulary List:

1. **Mission** /'mɪʃ.ən/ (noun): An important assignment or task often involving travel and exploration.
2. **Spacewalk** /'speɪs.wɔ:k/ (noun): An activity in which an astronaut exits a spacecraft to work in space.
3. **Orbits** /'ɔ:bit/ (noun): The curved path of a celestial object or spacecraft around a star planet or moon.
4. **Spacecraft** /'speɪs.kraef:t/ (noun): A vehicle designed for travel or operation in outer space.
5. **Risky** /'rɪs.ki/ (adjective): Involving danger or the possibility of loss or injury.
6. **Engineers** /,en.dʒə'nɪrz/ (noun): Professionals who design build or maintain engines machines or structures.

Comprehension Questions

Multiple Choice

1. What is the name of the mission launched by SpaceX for the first civilian spacewalk?

Option: Polaris Dawn
Option: Apollo 13
Option: Voyager 1
Option: Discovery

2. How many days will the crew spend in orbit around Earth during the mission?

Option: Up to five days
Option: One week
Option: Three days
Option: One month

3. Why is the spacewalk in this mission different from others?

Option: No air in the spacecraft during the walk
Option: Crew are all government astronauts
Option: Only one crew member doing the spacewalk
Option: The walk will be on the fifth day



4. Who is the commander of the mission?

- Option: Jared Isaacman
- Option: Elon Musk
- Option: Neil Armstrong
- Option: Sally Ride

5. What is the name of the spacecraft used in this mission?

- Option: Resilience
- Option: Endurance
- Option: Discovery
- Option: Perseverance

6. Which rocket was used to launch the spacecraft for this mission?

- Option: Falcon 9
- Option: Delta IV
- Option: Atlas V
- Option: Space Launch System

Answer

Multiple Choice: 1. Polaris Dawn 2. Up to five days 3. No air in the spacecraft during the walk 4. Jared Isaacman 5. Resilience 6. Falcon 9

Vocabulary quizzes

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

1. What is a spacewalk?

- Option: A type of space mission
- Option: An activity of walking in outer space
- Option: A space-themed party
- Option: A high-speed space travel

2. Which word describes a significant success or accomplishment?

- Option: Effort
- Option: Defeat
- Option: Achievement
- Option: Difficulty

3. What term is used to describe methods or actions that can be maintained for the long term without

causing harm?

- Option: Temporary
- Option: Disposable
- Option: Sustainable
- Option: Unstable

4. What are the components used in a recipe called?

- Option: Materials
- Option: Ingredients
- Option: Elements
- Option: Substances

5. What is a favorable or advantageous circumstance or occasion?

- Option: Issue
- Option: Challenge
- Option: Problem
- Option: Opportunity

6. What remains of plants or animals that lived in the past?

- Option: Mineral
- Option: Fossil
- Option: Artifact
- Option: Rock

7. What is the total income generated by a business?

- Option: Profit
- Option: Loss
- Option: Revenue
- Option: Expense

8. What is a vehicle designed for travel or operation in outer space?

- Option: Spaceship
- Option: Aircraft
- Option: Boat
- Option: Train

9. What is the possibility of suffering harm or loss?

- Option: Certainty
- Option: Risk
- Option: Safety
- Option: Security

10. What is another term for supreme power or authority?

- Option: Regime
- Option: Dominance
- Option: Imperium
- Option: Oligarchy

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

11. The Earth _____ around the sun.

12. Scientists are _____ with new technologies.

13. The _____ of the building was carefully designed by the architect.

14. The band gave an outstanding _____ at the concert.

15. _____ is a major environmental issue affecting many forested areas.

16. The astronauts had a critical _____ to complete in space.

17. Investors buy _____ in companies to own part of the business.

18. _____ use their skills to design and build innovative solutions.

19. The construction project will have a significant _____ on the local community.

20. The _____ is an extinct flying reptile.

21. What is the _____ situation regarding the project?

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

22. Experts who review and evaluate creative works such as movies books and art.

23. How individuals respond or behave in a particular situation or to specific stimuli.

24. Different options or choices that can be selected instead of one particular course of action.

25. To fly or rise high in the air with little effort like a bird.



26. Individuals or entities that provide funds to a company or project in the expectation of future financial gain.

27. A specific task or goal that a person or group is assigned to complete.

28. The curved path followed by a celestial object around a star or planet.

29. Involving potential danger or harm if precautions are not taken.

30. The income generated from the sale of goods or services.

31. A noteworthy accomplishment or success in one's endeavors.

Answer

Multiple Choice: 1. An activity of walking in outer space 2. Achievement 3. Sustainable 4. Ingredients 5. Opportunity 6. Fossil 7. Revenue 8. Spaceship 9. Risk 10. Imperium

Gap-Fill: 11. orbits 12. experimenting 13. structure 14. performance 15. Deforestation 16. mission 17. shares 18. Engineers 19. impact 20. Pterosaur 21. current

Matching sentence: 1. Critics 2. Reacted 3. Alternatives 4. Soar 5. Investors 6. Mission 7. Orbits 8. Risky 9. Revenue 10. Achievement

CATEGORY

1. Sci/Tech - LEVEL1

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