



NASA Unveils New Space Telescope

Description

The Nancy Grace Roman Telescope will launch from Kennedy Space Center. NASA plans to send it into space as early as this fall.

Next week, NASA will show the new space telescope. It was first called the Wide Field Infrared Survey Telescope. In May 2020, NASA named it after Nancy Grace Roman. She was the first chief astronomer at NASA and helped create space telescopes.

The telescope has a big mirror and special equipment. It will help scientists see more of the universe. NASA will ship it to Kennedy Space Center in Florida this summer.

Jamie Dunn, the project manager, said the telescope is ready. It went through many tests. The team faced difficulties during the COVID-19 pandemic, but they kept working.

The Roman Telescope will work alongside the James Webb Space Telescope. Roman can see large areas of the sky, helping scientists find new objects. It will conduct three main surveys to study the universe. Scientists are excited about what they might discover.

Vocabulary List:

1. **telescope** //ˈtelɪskəʊp// (noun): tool with lenses or mirrors to see far
2. **launch** //lɒntʃ// (verb): to send something into space or air
3. **astronomer** //ə'strɒnəmər// (noun): a person who studies stars and space
4. **equipment** //i'kwɪpmənt// (noun): tools or machines needed for a job
5. **conduct** //kən'dʌkt// (verb): to do or lead a planned activity
6. **surveys** //sə'rveɪz// (noun): careful studies to collect information about something

Comprehension Questions

Multiple Choice

1. What was the original name of the Nancy Grace Roman Telescope?

Option: Infrared Space Telescope



- Option: Wide Field Infrared Survey Telescope
- Option: Galactic Survey Telescope
- Option: Universal Observation Telescope

2. From where will the Nancy Grace Roman Telescope launch?

- Option: Cape Canaveral
- Option: Kennedy Space Center
- Option: Johnson Space Center
- Option: Vandenberg Air Force Base

3. Who was the first chief astronomer at NASA?

- Option: Nancy Grace Roman
- Option: Jamie Dunn
- Option: James Webb
- Option: E.P. Hubble

4. What did Jamie Dunn say about the telescope?

- Option: It is still being built
- Option: It is ready
- Option: It needs more tests
- Option: It will be delayed

5. What challenge did the project team face while working on the telescope?

- Option: Funding issues
- Option: COVID-19 pandemic
- Option: Lack of materials
- Option: Technical failures

6. What will the Roman Telescope primarily help scientists do?

- Option: Create new theories
- Option: See more of the universe
- Option: Build space stations
- Option: Orbit other planets

True-False

7. NASA plans to launch the Nancy Grace Roman Telescope next year.



8. The telescope is named after Nancy Grace Roman.
9. The Roman Telescope will work independently of the James Webb Space Telescope.
10. Jamie Dunn is the project manager for the Roman Telescope.
11. The telescope's main purpose is to provide weather data.
12. The NASA team encountered difficulties during the construction of the telescope.

Gap-Fill

13. The Nancy Grace Roman Telescope will launch from _____.
14. NASA named the telescope after _____ Grace Roman.
15. The telescope went through many tests during the _____ pandemic.
16. The Roman Telescope can see large areas of the _____.
17. The Nancy Grace Roman Telescope is set to launch as early as this _____.
18. It will conduct three main _____ to study the universe.

Answer

Multiple Choice: 1. Wide Field Infrared Survey Telescope 2. Kennedy Space Center 3. Nancy Grace Roman 4. It is ready 5. COVID-19 pandemic 6. See more of the universe

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

Gap-Fill: 13. Kennedy Space Center 14. Nancy 15. COVID-19 16. sky 17. fall 18. surveys

Vocabulary quizzes

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

1. What instrument is commonly used by astronomers to observe distant celestial objects?
Option: Microscope



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- Option: Telescope
Option: Thermometer
Option: Barometer
2. What type of spacecraft is designed to explore the surface of other planets?
- Option: Orbiter
Option: Rover
Option: Satellite
Option: Probe
3. What is typically used in gaming consoles to store game data?
- Option: Discs
Option: Cartridges
Option: Cloud storage
Option: Flash drives
4. What term is used for the ability of a system to imitate the functions of another system?
- Option: Simulation
Option: Emulation
Option: Duplication
Option: Recreation
5. What is formed when two or more parties collaborate for a common goal?
- Option: Contract
Option: Partnership
Option: Agreement
Option: Alliance
6. What term refers to improvements or new information provided for software or systems?
- Option: Upgrades
Option: Updates
Option: Fixes
Option: Maintenance
7. What are tools designed for scientific measurements and observations called?
- Option: Equipment
Option: Instruments
Option: Devices
Option: Machinery
8. Which element is the simplest and most abundant in the universe?
- Option: Oxygen
Option: Carbon



Option: Hydrogen

Option: Helium

9. What technology is used for precise cutting and measurement in various fields?

Option: Lenses

Option: Lasers

Option: LEDs

Option: Filaments

10. What term describes an event that has been postponed or rescheduled?

Option: Accelerated

Option: Delayed

Option: Cancelled

Option: Completed

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

11. The spacecraft intended to study Mars will be an _____ that remains in its orbit.

12. Studies conducted in a _____ state allow for more accurate results.

13. Astronomers often conduct _____ to gather data about celestial bodies.

14. The _____ radius is a fundamental measurement in particle physics.

15. The precise _____ of distance can be critical in scientific research.

16. Research requires specialized _____ to ensure accurate results.

17. A powerful _____ is essential for observing distant galaxies.

18. The _____ of the spacecraft was a collaborative effort between multiple teams.

19. The successful mission was due to a strong _____ between different space agencies.

20. The use of _____ has revolutionized the way scientists conduct experiments.

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

21. Scientists frequently conduct experiments in controlled environments to validate their hypotheses.



22. Software developers release an update to fix bugs and enhance features.
23. The design of the new telescope includes advanced features for better observation.
24. High-quality equipment is essential for collecting reliable data in research studies.
25. Experts in the field gathered to discuss the latest advancements in technology.
26. The partnership between universities and industries fosters innovation and research.
27. The organization conducts surveys to gather public opinion on various issues.
28. The launch of the rocket has been delayed due to unfavorable weather conditions.
29. The rover was equipped with advanced technological instruments to explore the Martian surface.
30. Hydrogen is the most abundant element in the universe and is crucial for many chemical reactions.

Answer

Multiple Choice: 1. Telescope 2. Rover 3. Cartridges 4. Emulation 5. Partnership 6. Updates 7. Instruments 8. Hydrogen 9. Lasers 10. Delayed

Gap-Fill: 11. orbiter 12. vacuum 13. surveys 14. proton 15. measurement 16. equipment 17. telescope 18. design 19. partnership 20. lasers

Matching sentence: 1. conduct 2. update 3. design 4. equipment 5. experts 6. partnership 7. surveys 8. delayed 9. rover 10. hydrogen

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Author

aimeeyoung99

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