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## European Rover Secures Launch for Mars Mission

### Description

The European Space Agency (ESA) worked with Russia to launch the ExoMars orbiter and rover. They used two Russian Proton rockets. ESA also added Russian science instruments to the missions. This helped Russian scientists because they could not send their own missions to Mars.

In 2016, Russia successfully launched the ExoMars Trace Gas Orbiter. It is still working around Mars. It sends back data and helps NASA's rovers, Curiosity and Perseverance, to communicate. A small European probe failed to land safely on Mars.

The launch of the ExoMars rover was delayed from 2018 to 2020. By 2020, the rover was nearly ready. But parachute tests failed, and the COVID-19 pandemic caused more delays.

In February 2022, Russia invaded Ukraine. ESA ended its partnership with Russia for ExoMars. This meant they had to remove Russian instruments from the mission.

NASA will now launch the Rosalind Franklin rover to Mars. They agreed to help ESA and provide needed technology. ESA will build the rover and manage the mission. The rover will explore Mars once it lands.

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### Vocabulary List:

1. **orbiter** //ˈɔːbɪtə// (noun): a spacecraft that moves around a planet
2. **rover** //ˈrəʊvə// (noun): a small vehicle for moving on a planet
3. **instruments** //ˈɪnstɾəmənts// (noun): tools scientists use to study and measure things
4. **parachute** //ˈpærəʃu:t// (noun): a fabric device to slow a falling object
5. **partnership** //ˈpɑːtnəʃɪp// (noun): an agreement where people or groups work together
6. **delayed** //dɪˈleɪd// (verb): made to happen later than planned

### Comprehension Questions

#### Multiple Choice

1. What did the European Space Agency (ESA) work on with Russia?

Option: Mars Rover only



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- Option: ExoMars orbiter and rover
  - Option: Lunar missions
  - Option: Satellite technology

2. What type of rockets did ESA use for the ExoMars missions?

- Option: Falcon 9
- Option: Ariane 5
- Option: Proton rockets
- Option: Space Shuttle

3. What year was the ExoMars Trace Gas Orbiter launched?

- Option: 2014
- Option: 2016
- Option: 2018
- Option: 2020

4. What caused further delays in the ExoMars rover launch?

- Option: Technical issues only
- Option: Weather conditions
- Option: Parachute test failures and the COVID-19 pandemic
- Option: Funding problems

5. What happened in February 2022 that affected the ESA's partnership with Russia?

- Option: ESA launched a new mission
- Option: Russia invaded Ukraine
- Option: NASA took over the project
- Option: The project was canceled

6. Who will launch the Rosalind Franklin rover to Mars?

- Option: ESA
- Option: NASA
- Option: Russia
- Option: China

### True-False

7. ESA added Russian science instruments to the ExoMars missions.



8. The ExoMars rover was originally scheduled to launch in 2020.
9. The ExoMars Trace Gas Orbiter is no longer functioning.
10. ESA will manage the Rosalind Franklin rover mission.
11. ESA continues to collaborate with Russia on ExoMars after 2022.
12. A small European probe successfully landed on Mars.

### Gap-Fill

13. ESA worked with Russia to launch the ExoMars orbiter and \_\_\_\_\_ rockets.
14. The launch of the ExoMars rover was delayed from 2018 to \_\_\_\_\_.
15. Russia invaded Ukraine in \_\_\_\_\_ 2022.
16. The rover will explore Mars once it \_\_\_\_\_.
17. NASA agreed to help ESA and provide needed \_\_\_\_\_ for the mission.
18. The small European probe failed to land safely on \_\_\_\_\_.

### Answer

**Multiple Choice:** 1. ExoMars orbiter and rover 2. Proton rockets 3. 2016 4. Parachute test failures and the COVID-19 pandemic 5. Russia invaded Ukraine 6. NASA

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

**Gap-Fill:** 13. Proton 14. 2020 15. February 16. lands 17. technology 18. Mars

### 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

## CATEGORY

1. Sci/Tech - LEVEL1

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6. Mars

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**Date Created**

2026/04/17

**Author**

aimeeyoung99

ESL-NEWS.COM