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# NASA Unveils Nuclear-Powered Mars Mission with Skyfall Helicopters

## Description

NASA plans to launch a nuclear-powered mission to Mars by 2028. This mission is important because it could change how humans explore space. Until now, Mars missions mostly used chemical and solar power, which have limits in speed and efficiency. Nuclear power can help spacecraft travel faster and carry more equipment.

The upcoming mission will use a spacecraft with Nuclear Electric Propulsion (NEP). This system uses a small nuclear reactor to create electricity. The electricity will power the spacecraft, allowing it to travel long distances without much fuel. The spacecraft may also launch helicopters, which can explore areas on Mars that robots cannot reach. NASA hopes this mission will help future trips to Mars.

Nuclear propulsion is different from traditional rockets. It provides a steady and efficient source of power. This technology can be two to five times more efficient than chemical systems. It does not depend on sunlight and is better for deep space missions.

Reducing the travel time to Mars is a major goal. Currently, it takes six to nine months to get there. A faster journey can lower health and financial risks for astronauts. NASA is already testing the nuclear engine to prove its effectiveness before the mission. If successful, this mission could mark the start of a new era in space exploration.

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## Vocabulary List:

1. **propulsion** //prə'pʌlʃən// (noun): force that moves a vehicle forward
2. **reactor** //ri'æktə// (noun): machine that makes heat or power
3. **efficiency** //i'fɪʃənsi// (noun): how well something uses energy or time
4. **spacecraft** //'speɪskræft// (noun): vehicle made to travel in space
5. **electricity** //ɪ,lek'trɪsəti// (noun): power used to run machines and lights
6. **nuclear** //'nu:kliə// (adjective): relating to energy produced by atoms

## Comprehension Questions

### Multiple Choice



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1. What type of mission does NASA plan to launch by 2028?
    - Option: Chemical-powered mission
    - Option: Solar-powered mission
    - Option: Nuclear-powered mission
    - Option: Hybrid-powered mission
  2. What propulsion system will the upcoming mission use?
    - Option: Electric Propulsion
    - Option: Chemical Propulsion
    - Option: Nuclear Electric Propulsion
    - Option: Solar Electric Propulsion
  3. How much more efficient can nuclear propulsion be compared to chemical systems?
    - Option: One to three times
    - Option: Two to five times
    - Option: Three to six times
    - Option: Four to seven times
  4. What is one of the major goals for the Mars mission?
    - Option: To increase chemical efficiency
    - Option: To launch satellites
    - Option: To reduce the travel time
    - Option: To set up a permanent base
  5. What unique feature does the spacecraft plan to use?
    - Option: Helicopters
    - Option: Drones
    - Option: Robots
    - Option: Gliders
  6. How long does it currently take to travel to Mars?
    - Option: Three to six months
    - Option: Six to nine months
    - Option: Nine to twelve months
    - Option: Twelve to fifteen months

### True-False



7. NASA's mission to Mars will primarily use solar power.
8. Nuclear propulsion does not depend on sunlight.
9. The upcoming mission plans to use robots exclusively for exploration on Mars.
10. The new nuclear propulsion system could travel faster and carry more equipment.
11. NASA has already tested the nuclear engine to prove its effectiveness.
12. Chemical and solar power have no limits in speed and efficiency.

### Gap-Fill

13. NASA plans to launch a nuclear-powered mission to Mars by \_\_\_\_\_.
14. The spacecraft will use \_\_\_\_\_ Electric Propulsion (NEP) for the mission.
15. Reducing the travel time to Mars is a major \_\_\_\_\_.
16. Currently, it takes six to nine months to get to \_\_\_\_\_.
17. The technology used is expected to be two to five times more \_\_\_\_\_ than chemical systems.
18. NASA hopes this mission will help future trips to \_\_\_\_\_.

### Answer

**Multiple Choice:** 1. Nuclear-powered mission 2. Nuclear Electric Propulsion 3. Two to five times 4. To reduce the travel time 5. Helicopters 6. Six to nine months

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

**Gap-Fill:** 13. 2028 14. Nuclear 15. goal 16. Mars 17. efficient

### Vocabulary quizzes



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

1. What is the primary vehicle used for travel beyond Earth's atmosphere?  
Option: Airplane  
Option: Rocket  
Option: Helicopter  
Option: Spacecraft
2. Which type of spacecraft is designed to carry astronauts and return them safely to Earth?  
Option: Satellite  
Option: Orbiter  
Option: Capsule  
Option: Probe
3. What force keeps planets in orbit around the sun?  
Option: Electromagnetism  
Option: Nuclear Force  
Option: Gravity  
Option: Friction
4. What term describes a failure in a system or machinery that prevents it from operating correctly?  
Option: Operational  
Option: Malfunctioned  
Option: Repaired  
Option: Functional
5. What type of video game mode allows multiple players to interact within the same game environment?  
Option: Single player  
Option: Co-op  
Option: Multiplayer  
Option: Solo
6. Which component of a computer network provides services to other computers?  
Option: Client  
Option: Router  
Option: Server  
Option: Switch
7. What term is used to describe a state in which a computer or device is not connected to the internet?  
Option: Online  
Option: Sync  
Option: Offline



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Option: Connected

8. What term refers to a person with whom one engages in a business relationship or activity?

Option: Ally

Option: Partner

Option: Rival

Option: Stranger

9. What term describes a group of people living in the same place or having a particular characteristic in common?

Option: Society

Option: Network

Option: Community

Option: Collective

10. What is a series of coordinated activities aimed at achieving a specific goal often in a political context called?

Option: Dilemma

Option: Campaign

Option: Project

Option: Event

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

11. A \_\_\_\_\_ is a rapidly rotating storm system characterized by a center of low pressure.

12. The \_\_\_\_\_ view of the landscape highlighted the intricate network of rivers.

13. The new video game focused on aerial \_\_\_\_\_ between various fighter aircraft.

14. She enjoyed making her own paper \_\_\_\_\_ for various art projects.

15. To help the environment, it is important to \_\_\_\_\_ materials like paper and plastic.

16. The software update was designed to fix known \_\_\_\_\_ in the application.

17. It's important to \_\_\_\_\_ the hard work that team members contribute to a project.

18. Species have \_\_\_\_\_ over millions of years to adapt to their surroundings.

19. The research team used a comprehensive \_\_\_\_\_ to gather and analyze their data.



20. There is a significant \_\_\_\_\_ in temperature between day and night in the desert.

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

21. The study of genetic traits helps scientists understand inheritance patterns.
22. The artist skillfully captured the contours of the landscape on canvas.
23. The spacecraft relied on advanced propulsion systems to navigate through space.
24. The power plant utilized a nuclear reactor to generate electricity for the city.
25. Improving energy efficiency can lead to significant cost savings for businesses.
26. Electricity is a form of energy that powers many devices in our daily lives.
27. Nuclear energy is produced through reactions in atomic nuclei.
28. Various types of spacecraft are used for exploration, research, and satellite deployment.
29. The space capsule successfully re-entered the Earth's atmosphere and landed safely.
30. Gravity is the force that attracts objects with mass toward one another.

**Answer**

**Multiple Choice:** 1. Spacecraft 2. Capsule 3. Gravity 4. Malfunctioned 5. Multiplayer 6. Server 7. Offline 8. Partner 9. Community 10. Campaign

**Gap-Fill:** 11. hurricane 12. aerial 13. combat 14. craft 15. recycle 16. bugs 17. recognise 18. evolved 19. database 20. variation

**Matching sentence:** 1. genetic 2. contours 3. propulsion 4. reactor 5. efficiency 6. electricity 7. nuclear 8. spacecraft 9. capsule 10. gravity

**CATEGORY**

- 1. Sci/Tech - LEVEL2

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**Date Created**

2026/03/28

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