

Moon Launch System: Chinese Scientists' Rotation Plan

Description

"The system is almost ready. It runs on electricity and doesn't need fuel, so it will be small and easy to set up," said the researchers in Aerospace Shanghai. Their main aim is to get helium-3 to help with Earth's energy problems. This could also help develop space mining, big rockets, and artificial intelligence.

Helium-3 is a type of helium that could be a great, clean fuel for nuclear fusion. Just 20 tonnes of it could power China for a whole year. The moon has a lot more helium-3 than Earth – enough to power the world for a very long time.

The researchers haven't said how they will get the helium or how it will come back to Earth. The system they want to use has a big rotating arm and a special motor. They hope to finish all the important parts by 2030 and have everything running by 2045.

Vocabulary List:

1. **Helium-3** /'hi:liəm-θri:/ (noun): A rare isotope of helium that is considered a potential fuel for nuclear fusion.
2. **Electricity** /ɪ'lɛk'trɪs.ɪ.ti/ (noun): A form of energy resulting from the flow of electric charge.
3. **Nuclear Fusion** /'nju:.kluər 'fju:.zən/ (noun): A nuclear reaction in which atomic nuclei combine to form a heavier nucleus releasing energy.
4. **Rotating** /rəʊ'teɪtɪŋ/ (adjective): Turning or revolving around an axis.
5. **System** /'sɪs.təm/ (noun): A set of principles or procedures according to which something is done; an organized scheme or method.
6. **Develop** /dɪ'veləp/ (verb): To grow or cause to grow and become more mature advanced or elaborate.

Comprehension Questions

Multiple Choice

1. What type of fuel is helium-3 considered to be for nuclear fusion?

Option: Dirty
Option: Clean
Option: Non-renewable

Option: Explosive

2. How much helium-3 could power China for a whole year?

Option: 5 tonnes

Option: 10 tonnes

Option: 20 tonnes

Option: 50 tonnes

3. What is the main aim of researchers in Aerospace Shanghai?

Option: Develop artificial intelligence

Option: Study Earth's atmosphere

Option: Get helium-3 for Earth's energy problems

Option: Explore underwater ecosystems

4. Which celestial body has more helium-3 compared to Earth?

Option: Mars

Option: Venus

Option: Jupiter

Option: Moon

5. What year do the researchers aim to have everything running with the system?

Option: 2035

Option: 2040

Option: 2045

Option: 2050

6. What is the key feature of the system that the researchers want to use for getting helium-3?

Option: Solar panels

Option: Rotating arm and special motor

Option: Wind turbines

Option: Geothermal energy source

Answer

Multiple Choice: 1. Clean 2. 20 tonnes 3. Get helium-3 for Earth's energy problems 4. Moon 5. 2045 6. Rotating arm and special motor

Vocabulary quizzes

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

1. Which term refers to the process of creating something new or introducing new ideas or methods?

- Option: Engage
- Option: Helium-3
- Option: Corruption
- Option: Innovation

2. What is the term used to describe the application of scientific knowledge for practical purposes?

- Option: Develop
- Option: Artificial
- Option: Technology
- Option: Skepticism

3. Who are advocates for the protection of the environment and sustainable practices?

- Option: Campaign
- Option: Promoting
- Option: Environmentalists
- Option: Prototype

4. Which term means to observe supervise or regulate a process or activity?

- Option: Nuclear Fusion
- Option: Monitor
- Option: Rotating
- Option: Concerns

5. What form of energy is produced from the movement of electrons?

- Option: Ineffective
- Option: Electricity
- Option: Commitment
- Option: Integrating

6. What term describes the state of being unable to concentrate or focus?

- Option: Allegations
- Option: Engage
- Option: Distracted
- Option: Monitoring

7. Which term denotes dedication and loyalty to a cause or relationship?

- Option: Prioritize
- Option: Artificial
- Option: System

Option: Commitment

8. What word describes the effect or influence that an event or action has?

Option: Skepticism

Option: Impact

Option: Prototype

Option: Manipulated

9. Which term refers to dishonest or fraudulent conduct by those in power?

Option: Develop

Option: Corruption

Option: Promoting

Option: Campaign

10. What is the term for arranging tasks or goals in order of importance?

Option: Organic

Option: Prioritize

Option: Innovation

Option: Navigating

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

11. _____ new technologies into existing systems can enhance efficiency.

12. There is a lot of _____ surrounding the new government policy.

13. The engineers are working on a new _____ of the device.

14. The political party launched a new advertising _____.

15. It takes time to _____ a good relationship with clients.

16. Some argue that intelligence from machines is _____ and lacks creativity.

17. The data was _____ to show favorable results.

18. The Earth's _____ movement causes day and night.

19. Many people prefer to buy _____ produce for its health benefits.

20. To _____ customers companies often use social media platforms.

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

21. is a potential fuel for future nuclear fusion reactors.
22. is a process that powers the sun and stars.
23. Regular is essential to ensure the system functions properly.
24. Addressing environmental requires global cooperation.
25. The company faces serious of employee mistreatment.
26. Before mass production companies often create a product for testing.
27. The outdated equipment proved in the new manufacturing process.
28. Companies use various strategies for their products to a wider audience.
29. In unfamiliar territories a compass can help you your way.
30. A well-designed operating can streamline business processes.

Answer

Multiple Choice: 1. Innovation 2. Technology 3. Environmentalists 4. Monitor 5. Electricity 6. Distracted
7. Commitment 8. Impact 9. Corruption 10. Prioritize

Gap-Fill: 11. Integrating 12. Skepticism 13. Prototype 14. Campaign 15. Develop 16. Artificial 17. Manipulated 18. Rotating 19. Organic 20. Engage

Matching sentence: 1. Helium-3 2. Nuclear Fusion 3. Monitoring 4. Concerns 5. Allegations 6. Prototype
7. Ineffective 8. Promoting 9. Navigate 10. System

CATEGORY

1. Sci/Tech - LEVEL1

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