



The NOAA satellite is set to be launched aboard the SpaceX Falcon Heavy

Description

SpaceX is gearing up for an exciting launch on the Space Coast as they prepare to blast their **Falcon Heavy** rocket into the Florida sky this week. The mission will carry NASA's **Psyche** asteroid mission, promising an exhilarating **spectacle** for residents in the area.

The **Falcon Heavy** consists of three Falcon 9 first stage rockets, providing the necessary power to lift a weather satellite into orbit. This launch marks a rare sight in Florida, as the last **Falcon Heavy** mission took place in late December. The rocket is needed due to the size of the payload, with the **GOES-U** weather satellite comparable to a small school bus.

Compared to the single Falcon 9 rocket used for other missions, the **Falcon Heavy** stands out with its impressive width and height. SpaceX's track record with the **Falcon Heavy** includes nine successful launches, 17 booster landings, and 14 booster reflights.

As the **Falcon Heavy** roars into the sky, SpaceX aims to recover the two supporting Falcon 9 boosters, showcasing the company's commitment to reusability. The sonic booms created during landing provide a thrilling experience for spectators on the Space Coast.

With the launch of the **NOAA/NASA GOES-U** satellite scheduled for Tuesday, weather permitting, the **Falcon Heavy** is set to continue its legacy of delivering crucial payloads into orbit. Stay tuned for more updates from the Space Coast as SpaceX prepares for this groundbreaking mission.

Vocabulary List

1. **Falcon Heavy** /?fælk?n ?h?vi/ (noun): A heavy-lift launch vehicle developed by SpaceX.
2. **Psyche** /?sa?ki/ (noun): A NASA mission to explore the metal-rich asteroid 16 Psyche.
3. **GOES-U** /?o?z ju?/ (noun): The Geostationary Operational Environmental Satellite-U, a weather satellite.
4. **NOAA** /?no??/ (noun): National Oceanic and Atmospheric Administration.
5. **Asteroid** /?æst?r??d/ (noun): A small rocky body orbiting the sun.
6. **Spectacle** /?sp?kt?k?l/ (noun): An impressive or remarkable sight.

Vocabulary List:

1. **Asteroid** /'æs.tə.rɔɪd/ (noun): A small rocky body orbiting the sun.
2. **Spectacle** /'spɛk.tə.kəl/ (noun): An impressive or remarkable sight.
3. **Legacy** /'lɛg.ə.si/ (noun): Something handed down from an ancestor or from the past.



4. **Reusability** /,ri:ju:zə'bi:l.i.ti/ (noun): The ability to be used again.
5. **Launch** /lɔ:ntʃ/ (verb): To set in motion or to send into the air.
6. **Payload** /'peɪ.ləʊd/ (noun): The cargo carried by a vehicle especially in terms of space missions.

Comprehension Questions

Multiple Choice

1. What is the purpose of the Falcon Heavy rocket launch mentioned in the text?
Option: To carry out a NASA mission to explore an asteroid
Option: To study the weather patterns in Florida
Option: To test the reusability of SpaceX rockets
Option: To transport astronauts to the International Space Station
2. How many Falcon 9 first stage rockets make up the Falcon Heavy rocket?
Option: One
Option: Two
Option: Three
Option: Four
3. What makes the Falcon Heavy rocket different from the Falcon 9 rocket?
Option: It has greater payload capacity
Option: It is painted in a different color
Option: It uses different fuel
Option: It is smaller in size
4. What is the size of the GOES-U weather satellite compared to?
Option: A small car
Option: A small house
Option: A small school bus
Option: A small airplane
5. How many booster landings has SpaceX achieved with the Falcon Heavy?
Option: 5
Option: 10
Option: 17
Option: 20



6. What is the role of the two supporting Falcon 9 boosters during the Falcon Heavy launch?

Option: Act as backups in case of engine failure

Option: Recoverable for reuse

Option: Jettisoned into space during takeoff

Option: Provide additional fuel to the main rocket

Answer

Multiple Choice: 1. To carry out a NASA mission to explore an asteroid 2. Three 3. It has greater payload capacity 4. A small school bus 5. 17 6. Recoverable for reuse

Vocabulary quizzes

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

1. What is the term used to describe the termination of a process before it is completed?

Option: Interruption

Option: Deployment

Option: Surge

Option: Asymmetric

2. What word refers to something handed down from the past?

Option: Versatility

Option: Potentials

Option: Endemism

Option: Legacy

3. What term is used to describe the cargo carried by a vehicle?

Option: Niche

Option: Payload

Option: Culminating

Option: Versatility

4. What word describes something delicate or easily broken?

Option: Interruption

Option: Dramatic

Option: Fragile

Option: Functionalities

5. Which term indicates that something is capable of happening or being developed?



- Option: Potentially
- Option: Centrosaurine
- Option: Ceratopsid
- Option: Launch

6. What is the term used for the movement of troops to a new location for military operations?

- Option: Diversifying
- Option: Frustration
- Option: Deployment
- Option: Surge

7. Which term refers to the path followed by an object around a star?

- Option: Orbit
- Option: Disruptions
- Option: Endemism
- Option: Assemblage

8. What word describes the ability to adapt or be adapted to many different functions?

- Option: Versatility
- Option: Centrosaurine
- Option: Asteroid
- Option: Functionalities

9. Which term refers to a sudden and large increase?

- Option: Surge
- Option: Potentials
- Option: Endemism
- Option: Assemblage

10. What term is used for someone who competes for a prize or award?

- Option: Contender
- Option: Culminating
- Option: Diversifying
- Option: Legacy

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

11. The _____ of certain species in isolated regions can lead to unique adaptations.

12. Modern smartphones offer a wide range of features and _____.

13. The negotiations between the two countries were hampered by their _____ power



dynamic.

14. The play had a _____ ending that left the audience in awe.
15. The founder left behind a rich _____ that influenced the company for generations.
16. The hospital experienced a sudden _____ of patients during the flu season.
17. The project had a detailed _____ plan in case of unexpected delays.
18. The small cafe found its _____ market among college students looking for a study spot.
19. The new technology has many exciting _____ for revolutionizing the industry.
20. The constant _____ with the slow internet speed led to complaints from employees.

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

21. dinosaurs are known for their elaborate frill-like skulls with horns.
22. The family of dinosaurs includes the famous Triceratops.
23. An unexpected during the live broadcast caused confusion among viewers.
24. The art exhibition featured an of paintings from various artists.
25. The company is its product line to reach a wider customer base.
26. An impact is believed to have caused the extinction of the dinosaurs.
27. The fireworks show was a dazzling that lit up the night sky.
28. The design focuses on the of materials to promote environmental sustainability.
29. The space agency announced the successful of a new satellite.
30. The palace was decorated with intricate and designs.



Answer

Multiple Choice: 1. Interruption 2. Legacy 3. Payload 4. Fragile 5. Potentially 6. Deployment 7. Orbit
8. Versatility 9. Surge 10. Contender

Gap-Fill: 11. Endemism 12. Functionalities 13. Asymmetric 14. Dramatic 15. Legacy 16. Surge 17.
Contingency 18. Niche 19. Potentials 20. Frustration

Matching sentence: 1. Centrosaurine 2. Ceratopsid 3. Interruption 4. Assemblage 5. Diversifying 6. Asteroid
7. Spectacle 8. Reusability 9. Launch 10. Ornate

CATEGORY

1. Sci/Tech - LEVEL5

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