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# NASA Satellite in Orbit Crisis: Team Aims to Rescue

## Description

The Swift spacecraft is on a collision course with Earth and could crash before the year's end unless it receives a reboost. Katalyst Space Technologies aims to address this issue with its robotic servicing spacecraft, Link, which will attempt to dock with Swift and raise its altitude, potentially extending the satellite's operational life.

This project marks several significant firsts. Firstly, Swift was not originally designed for docking or altitude adjustments. Secondly, this mission represents the inaugural attempt by Katalyst to engage another satellite in orbit. Furthermore, NASA has imposed a strict nine-month timeline to construct, test, and launch the rescue operation before Swift descends below a threshold deemed safe for intervention.

Ghonhee Lee, the founder and CEO of Katalyst, called the mission "technically ambitious". The launch is slated for June 1, leaving little room for error. By late summer or early autumn, Swift is expected to descend below 200 miles (320 kilometres), a point at which Katalyst may struggle to maintain control of its spacecraft. Lee acknowledged that the complexity of docking two large spacecraft adds significant challenges, noting that they initially believed they had more time.

NASA's objectives for the mission are twofold: to showcase a critical capability for future space exploration and to prevent Swift from being destroyed upon re-entry while allowing it to continue its scientific work. Lee also mentioned the inherent uncertainty in such endeavors, stating, "You can't get 100 percent guaranteed success on this."

During a recent visit to Katalyst, technicians were actively engaged in assembling components, including solar panels, which contrasts sharply with the lengthy timelines typical of traditional government space missions. A company official remarked on the ambitious pace, saying that significant progress had been made given the project commenced only five months ago. The success of this mission could redefine how future satellite servicing is conducted in space.

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## Vocabulary List:

1. **collision** //kə'liʒən// (noun): a crash when two things hit each other
2. **dock** //dɒk// (verb): to connect one spacecraft to another
3. **altitude** //ˈæɪ.tə.tud// (noun): height above the ground or sea level
4. **inaugural** //ɪ'nɔːrgjərəl// (adjective): being the first in a series or event
5. **timeline** //ˈtaɪm.laɪn// (noun): a plan showing when tasks must be done
6. **descend** //dɪ'send// (verb): to move down to a lower position



## Comprehension Questions

### Multiple Choice

1. What is the name of the spacecraft on a collision course with Earth?  
Option: Link  
Option: Swift  
Option: Katalyst  
Option: NASA
2. When is the launch of the Katalyst mission scheduled?  
Option: June 1  
Option: July 15  
Option: August 30  
Option: September 10
3. What is the primary goal of Katalyst Space Technologies' mission?  
Option: To destroy the Swift spacecraft  
Option: To dock with Swift  
Option: To build a new satellite  
Option: To create solar panels
4. What is the timeframe imposed by NASA for the rescue operation?  
Option: Three months  
Option: Six months  
Option: Nine months  
Option: One year
5. What did Ghonhee Lee refer to the mission as?  
Option: Easily manageable  
Option: Technically ambitious  
Option: Completely safe  
Option: A simple task
6. How far is Swift expected to descend below by late summer or early autumn?  
Option: 100 miles



- Option: 150 miles
- Option: 200 miles
- Option: 250 miles

**True-False**

- 7. The Swift spacecraft was originally designed for docking adjustments.
- 8. Katalyst Space Technologies has completed the construction of the spacecraft ahead of schedule.
- 9. NASA's mission involves preventing the destruction of Swift upon re-entry.
- 10. Ghonhee Lee is the founder and CEO of NASA.
- 11. The mission's success could redefine future satellite servicing in space.
- 12. The Katalyst rocket is designed to carry astronauts to the moon.

**Gap-Fill**

- 13. Katalyst aims to raise the altitude of Swift and extend its operational life before it descends below \_\_\_\_\_ miles.
- 14. The mission represents Katalyst's inaugural attempt to engage another \_\_\_\_\_ in orbit.
- 15. NASA has imposed a strict timeline of \_\_\_\_\_ months for the rescue operation.
- 16. Significant progress has been made since the project commenced only \_\_\_\_\_ months ago.
- 17. Ghonhee Lee described the mission as technically \_\_\_\_\_ during a recent visit.
- 18. The inherent uncertainty in space missions means you can't get \_\_\_\_\_ percent



guaranteed success.

## Answer

**Multiple Choice:** 1. Swift 2. June 1 3. To dock with Swift 4. Nine months 5. Technically ambitious 6. 200 miles

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

**Gap-Fill:** 13. 200 14. satellite 15. nine 16. five 17. ambitious 18. 100

## Vocabulary quizzes

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

1. What does the term 'acquisition' generally refer to?  
Option: A type of investment  
Option: The act of gaining possession  
Option: A form of technology  
Option: A method of communication
2. Which of the following best describes an immersive experience?  
Option: A shallow encounter  
Option: A detailed simulation  
Option: A brief interaction  
Option: A theoretical concept
3. Which of the following fields would primarily use the term 'neural'?  
Option: Economics  
Option: Biology  
Option: Computer science  
Option: Philosophy
4. In computer graphics, what does 'rendering' refer to?  
Option: Creating a 3D model  
Option: Displaying an image from a model  
Option: Editing a photo  
Option: Analyzing data
5. Which of the following terms is closely associated with 'fidelity'?  
Option: Clarity  
Option: Distortion



- Option: Emphasis
- Option: Compression

6. What is the purpose of upscaling in image processing?

- Option: To decrease image size
- Option: To improve image quality
- Option: To enhance color saturation
- Option: To change file format

7. What does 'speculation' imply in financial terms?

- Option: Guaranteed profit
- Option: Informed decision-making
- Option: Investment based on conjecture
- Option: Long-term stability

8. What does 'facilitating' often refer to in a business context?

- Option: Complicating processes
- Option: Making tasks easier
- Option: Adding obstacles
- Option: Reducing efficiency

9. In social contexts, what does 'matchmaking' refer to?

- Option: Finding pairs for activities
- Option: Identifying competitive advantages
- Option: Creating partnerships
- Option: Arranging relationships

10. What is indicated by the term 'rarity'?

- Option: Commonness
- Option: Abundance
- Option: Scarcity
- Option: Stagnation

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

11. The \_\_\_\_\_ of resources is crucial for project success.
12. Investing in quality often leads to the \_\_\_\_\_ of a product.
13. To ensure future growth, we must learn how to \_\_\_\_\_ our resources.



14. Customer \_\_\_\_\_ is vital for business retention strategies.
15. Improving \_\_\_\_\_ can enhance user experience significantly.
16. We should always \_\_\_\_\_ market trends to stay competitive.
17. It is important to \_\_\_\_\_ the performance of our marketing campaigns.
18. The \_\_\_\_\_ of ideas often leads to innovation.
19. The ship will \_\_\_\_\_ at the harbor by early morning.
20. The pilots must consider \_\_\_\_\_ when planning the flight path.

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

21. The inaugural event marked the beginning of a new era.
22. The Crystal museum showcased stunning exhibits of natural formations.
23. The Jellyfish are fascinating creatures that thrive in ocean waters.
24. Fluorescent lights are commonly used for their energy efficiency.
25. Protein is essential for building and repairing tissues in the body.
26. The label on the product contains important information for the consumer.
27. Biological research often leads to breakthroughs in medical science.
28. The team's engagement in the project led to innovative solutions.
29. The availability of new technologies can impact business operations significantly.
30. Facilitating effective communication is key to successful collaboration.

**Answer**

**Multiple Choice:** 1. The act of gaining possession 2. A detailed simulation 3. Computer science 4. Displaying an image from a model 5. Clarity 6. To improve image quality 7. Investment based on conjecture 8. Making tasks easier 9. Arranging relationships 10. Scarcity

**Gap-Fill:** 11. availability



12. longevity 13. sustain 14. engagement 15. accessibility 16. anticipate 17. monitor 18. collision 19. dock  
20. altitude

**Matching sentence:** 1. inaugural 2. Crystal 3. Jellyfish 4. Fluorescent 5. Protein 6. Label 7. Biological  
8. engagement 9. availability 10. facilitating

## CATEGORY

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