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# NASA's Psyche Spacecraft Reveals New Images of Familiar World

## Description

NASA's Psyche spacecraft recently approached Mars, capturing images from a unique angle. The spacecraft passed Mars from the side opposite the Sun, making the planet look like a thin crescent. This view highlighted Mars' delicate atmosphere, showing sunlight filtering through dust clouds above its reddish surface.

During this close encounter on May 15, 2026, Psyche took a wide-angle view of Mars' southern polar ice cap. Jim Bell, the leader of the Psyche imaging team at Arizona State University, reported that the spacecraft recorded thousands of images. These images help scientists check how well the cameras are working.

Psyche's instruments possibly detected the solar wind interacting with Mars' upper atmosphere. The spacecraft's spectrometers aimed to measure the chemical makeup of the Martian surface during its flight.

Many other missions are studying Mars, so major discoveries from Psyche's data are unlikely. Instead, scientists will use these observations to improve the mission's instruments by comparing them with data from previous Mars missions.

While it's fascinating to see Mars from a new angle, the Psyche mission will really shine when it reaches its namesake asteroid in three years. This asteroid, rich in metals like iron and nickel, is about the size of Massachusetts. The spacecraft will have plenty of time to explore this uncharted territory, unlike the brief visit to Mars.

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## Vocabulary List:

1. **atmosphere** //ˈæt məs fɪr// (noun): thin layer of gases around a planet
2. **crescent** //ˈkr ɛ s ə n t// (noun): curved thin shape like a moon
3. **spectrometers** //sp ɛ k ˈ t r ə m ɪ t ə r z// (noun): instruments that measure light to find chemicals
4. **interacting** //, ɪ n t ə ˈ æ k t ɪ ŋ// (verb): acting on each other; affecting one another
5. **namesake** //ˈneɪm seɪk// (noun): the person or thing giving a name
6. **uncharted** //ʌn ˈ tʃ ɑ r t ɪ d// (adjective): not mapped, explored, or known before

## Comprehension Questions



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## Multiple Choice

1. What unique angle did NASA's Psyche spacecraft use to capture images of Mars?  
Option: From the side opposite the Sun  
Option: From the North Pole  
Option: From the South Pole  
Option: Directly facing the Sun
2. On what date did Psyche approach Mars?  
Option: May 15, 2026  
Option: June 20, 2025  
Option: April 10, 2027  
Option: August 12, 2026
3. Who is the leader of the Psyche imaging team at Arizona State University?  
Option: Jim Bell  
Option: John Doe  
Option: Alice Smith  
Option: Maria Garcia
4. What did Psyche's instruments possibly detect during its encounter with Mars?  
Option: Radio waves  
Option: Solar wind  
Option: Cosmic rays  
Option: Magnetic fields
5. What is the primary goal of Psyche's observations of Mars?  
Option: To make major discoveries  
Option: To improve mission instruments  
Option: To search for life  
Option: To map the surface
6. What is the size comparison used for Psyche's namesake asteroid?  
Option: About the size of Texas  
Option: About the size of California  
Option: About the size of Massachusetts  
Option: About the size of Florida



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### True-False

7. The Psyche spacecraft captured images of Mars from the side closest to the Sun.
8. Jim Bell reported that the spacecraft captured thousands of images during its flyby.
9. Psyche is expected to make significant discoveries about Mars.
10. The asteroid Psyche is rich in metals like iron and nickel.
11. Psyche's mission will have a short duration compared to its visit to Mars.
12. Psyche's instruments are designed to measure the chemical makeup of the Martian surface.

### Gap-Fill

13. During its close encounter on May 15, 2026, Psyche took a wide-angle view of Mars' southern polar ice cap and recorded \_\_\_\_\_ images.
14. Mars looked like a thin crescent due to Psyche's approach from the side opposite the \_\_\_\_\_ and the delicate atmosphere.
15. Many missions are studying Mars, so major discoveries from Psyche's data are \_\_\_\_\_ unlikely.
16. Psyche's instruments possibly detected the solar wind interacting with Mars' \_\_\_\_\_ atmosphere.
17. The asteroid Psyche is about the size of \_\_\_\_\_ and is rich in metals.
18. The spacecraft will explore uncharted territory for \_\_\_\_\_ time unlike the brief visit to Mars.



## Answer

**Multiple Choice:** 1. From the side opposite the Sun 2. May 15, 2026 3. Jim Bell 4. Solar wind 5. To improve mission instruments 6. About the size of Massachusetts

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

**Gap-Fill:** 13. thousands of 14. Sun 15. unlikely 16. upper 17. Massachusetts 18. plenty of

## CATEGORY

1. Sci/Tech - LEVEL3

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