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# Moon Reveals New Impact Scar

## Description

A space rock hit the Moon and created a new crater. This event happened in late spring 2024. The crater is 225 metres wide, about the size of two football pitches. NASA's Lunar Reconnaissance Orbiter Camera took pictures before and after the impact.

The Moon always gets hit by space rocks. They create new craters every day. However, seeing a new crater form is rare. Before this, the largest crater from this mission was 70 metres wide. This new one is much bigger. It should happen only once every 139 years in one place on the Moon.

The new crater is funnel-shaped and 43 metres deep. The walls are steep and hard to stand on. Large blocks of rock are scattered around its edge. The impact came from the south-southwest, showing how the debris moved.

Inside the crater, scientists found dark, glassy rock. This formed from the heat of the impact. The images taken before and after allow researchers to study how craters form in the Solar System.

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## Vocabulary List:

1. **crater** /'kreɪtər/ (noun): a round hole made by a strong hit
2. **impact** /'ɪmpækt/ (noun): a strong hit or collision
3. **debris** /də'brɪː/ (noun): pieces of broken rock or other material
4. **glassy** /'glæsi/ (adjective): shiny and hard like clear glass
5. **steep** /sti:p/ (adjective): with a very sharp, high slope
6. **researchers** /rɪ'sɜːtʃəz/ (noun): people who study things to learn more

## Comprehension Questions

### Multiple Choice

1. When did the space rock hit the Moon and create a new crater?

Option: Spring 2023

Option: Late Spring 2024

Option: Summer 2024



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Option: Fall 2025

2. How wide is the new crater?

- Option: 70 metres
- Option: 100 metres
- Option: 225 metres
- Option: 300 metres

3. How deep is the new crater?

- Option: 30 metres
- Option: 40 metres
- Option: 43 metres
- Option: 50 metres

4. What was the size of the largest crater from this mission before the new one was formed?

- Option: 50 metres
- Option: 60 metres
- Option: 70 metres
- Option: 80 metres

5. How often should a similar impact event happen in one place on the Moon?

- Option: Once every 50 years
- Option: Once every 100 years
- Option: Once every 139 years
- Option: Once every 200 years

6. What type of rock was found inside the new crater?

- Option: Sandstone
- Option: Glassy rock
- Option: Granite
- Option: Basalt

### **True-False**

7. The new crater on the Moon is 150 metres wide.

8. Seeing a new crater form on the Moon is a common event.



9. Large blocks of rock are scattered around the edge of the new crater.
10. The Lunar Reconnaissance Orbiter Camera took pictures of the impact.
11. The impact came from the east-northeast.
12. Scientists can use the images to study how craters form in the Solar System.

### Gap-Fill

13. The new crater on the Moon is \_\_\_\_\_ wide, about the size of two football pitches.
14. This new crater is funnel-shaped and \_\_\_\_\_ metres deep.
15. The largest crater from this mission before the new one was \_\_\_\_\_ metres wide.
16. The impact occurred in late spring \_\_\_\_\_.
17. Seeing a new crater form is \_\_\_\_\_.
18. Inside the crater, scientists found dark, \_\_\_\_\_ rock formed from the heat of the impact.

### Answer

**Multiple Choice:** 1. Late Spring 2024 2. 225 metres 3. 43 metres 4. 70 metres 5. Once every 139 years  
6. Glassy rock

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

**Gap-Fill:** 13. 225 metres 14. 43 15. 70 16. 2024 17. rare 18. glassy

### Vocabulary quizzes

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

1. What is typically formed when a meteor impacts the Earth?  
Option: Mountain  
Option: Crater



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- Option: Valley  
Option: Plain
2. What term is used to describe the collision of a meteor with a planet's surface?  
Option: Mass  
Option: Impact  
Option: Combine  
Option: Merge
3. What is the term for the fragments left after a meteor strike?  
Option: Debris  
Option: Rubble  
Option: Dust  
Option: Ash
4. Who typically studies the effects of meteor impacts?  
Option: Scientists  
Option: Researchers  
Option: Astronauts  
Option: Engineers
5. What has advanced to allow for better protection against meteors?  
Option: Biology  
Option: History  
Option: Technology  
Option: Philosophy
6. What do scientists propose to improve against incoming meteors?  
Option: Attack  
Option: Defences  
Option: Surveillance  
Option: Fencing
7. What term describes a feature that is one of a kind?  
Option: Regular  
Option: Common  
Option: Unique  
Option: Normal
8. What must be done to send a spacecraft into orbit?  
Option: Launch  
Option: Dock  
Option: Install



Option: Debrief

9. What type of texture can debris from a meteor impact sometimes have?

- Option: Matte
- Option: Glassy
- Option: Rough
- Option: Bumpy

10. What activity involves searching for new information or understanding about the universe?

- Option: Exploiting
- Option: Ignoring
- Option: Exploring
- Option: Surrendering

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

- 11. The crater features steep walls that make it visually fascinating and challenging to study.
- 12. Advancements in technology are making it easier for us to resist the impacts of meteors.
- 13. To ensure safety, we must activate our monitoring systems immediately after a meteor event.
- 14. The new spacecraft design enhances the mobility needed for astronauts to navigate in space.
- 15. We are installing new sensors to better detect incoming space debris.
- 16. Living on another planet may one day be a luxury we can afford.
- 17. Developers often release a patch to fix bugs in their software or gameplay.
- 18. Astronauts aim to inspire the next generation of scientists by sharing their experiences.
- 19. When exploring new worlds, astronauts often think about the borders of human knowledge.
- 20. The explorers of the past are often viewed as legendary figures in history.

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

21. The large crater on the moon is a result of several meteor impacts.

22. The impact of the meteor created a significant change in the landscape.



23. The debris from the meteor shower scattered across the valley.
24. Researchers are working hard to uncover the mysteries of the universe.
25. Modern technology has revolutionized the way we explore outer space.
26. Our defences against meteor strikes have been significantly improved.
27. Exploring new planets is a dream for many scientists and astronauts.
28. The launch of the new spacecraft will mark a new era in space travel.
29. This unique feature makes the crater an interesting site for study.
30. The glassy surface of the meteorite reflects sunlight beautifully.

## Answer

**Multiple Choice:** 1. Crater 2. Impact 3. Debris 4. Researchers 5. Technology 6. Defences 7. Unique 8. Launch 9. Glassy 10. Exploring

**Gap-Fill:** 11. steep 12. resist 13. activate 14. mobility 15. installing 16. luxury 17. patch 18. inspire 19. borders 20. legendary

**Matching sentence:** 1. crater 2. impact 3. debris 4. researchers 5. technology 6. defences 7. exploring 8. launch 9. unique 10. glassy

## CATEGORY

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**Author**

aimeeyoung99

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