



A New and Remarkable Dinosaur Discovered in Montana's Ancient Swamps

Description

A newly discovered dinosaur species, **Lokiceratops rangiformis**, has been unveiled at the Natural History Museum of Utah. This plant-eating dinosaur lived over 78 million years ago on the island continent of Laramidia, showcasing unique features like large blade-like horns and a distinctive **asymmetric** spike. The dinosaur, found in the badlands of northern Montana, is among the largest and most **ornate** horned dinosaurs ever discovered.

Lokiceratops belonged to the **ceratopsid** group of dinosaurs, evolving around 92 million years ago during the Late Cretaceous period. This new species, with its huge **frill** horns and lack of a nose horn, demonstrates the diversity of horned dinosaurs influenced by sexual selection.

The study team, led by paleontologist Joseph Sertich, revealed that **Lokiceratops** is the fourth **centrosaurine** dinosaur identified from a single **assemblage** in Montana. This discovery challenges previous beliefs about the coexistence of different horned dinosaur species in the same place and time. The research also sheds light on the rapid evolution and high **endemism** seen in ceratopsid dinosaurs on Laramidia.

The findings of this study, published in the scientific journal **PeerJ**, provide valuable insights into the evolution and diversity of horned dinosaurs, highlighting the importance of sexual selection in shaping their unique features. The discovery of **Lokiceratops rangiformis** adds to our understanding of the ancient ecosystems and the fascinating world of dinosaurs.

Vocabulary List

1. **Asymmetric** /?e?s??m?tr?k/ (adjective): Having parts that fail to correspond to one another in shape, size, or arrangement.
2. **Ceratopsid** /?s?r??t?ps?d/ (noun): A group of herbivorous, beaked dinosaurs.
3. **Centrosaurine** /?s?ntr??s??ri?n/ (noun): A subgroup of ceratopsid dinosaurs.
4. **Endemism** /?n?d?m?z?m/ (noun): The ecological state of being unique to a defined geographic location.
5. **Assemblage** /??s?mbl?d?/ (noun): A collection or gathering of things or people.
6. **Ornate** /???ne?t/ (adjective): Made in an intricate shape or decorated with complex patterns.
7. **Frill** /fr?!/ (noun): A bony extension of the skull in some dinosaurs, often forming a decorative feature.

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arrangement.

2. **Ceratopsid** /ˌsɛr.ə'tɒp.sɪd/ (noun): A group of herbivorous beaked dinosaurs.
3. **Centrosaurine** /ˌsɛn.trə'sɔːrɪn/ (noun): A subgroup of ceratopsid dinosaurs.
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5. **Assemblage** /ə'sɛm.blɪdʒ/ (noun): A collection or gathering of things or people.
6. **Ornate** /ɔːr'neɪt/ (adjective): Made in an intricate shape or decorated with complex patterns.

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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