



## Dinosaurs Ran like Emus: Keeping One Foot Grounded

### Description

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Emus run like dinosaurs, always keeping one foot on the ground when running at a medium speed. Scientists at Utrecht University studied why birds run differently from humans.

For example, emus can run up to 50 km/h with one foot always on the ground at medium speeds, which uses more energy than having both feet off the ground like humans.

Scientists created a computer model of an emu to study running styles and energy use. They found that grounded running, like emus do, can sometimes be more efficient for birds with different anatomy.

Fossils show that some dinosaurs had postures similar to modern running birds. They had long tails and feathered forelimbs, resembling emus.

Grounded running in birds might have evolved from non-avian dinosaurs, along with other features like feathers and bipedality, according to researchers.

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## Vocabulary List:

1. **Anatomy** /əˈnæt.ə.mi/ (noun): The structure of an organism or its parts.
2. **Efficient** /ɪˈfɪ.ənt/ (adjective): Performing or functioning in the best possible manner with the least waste of time and effort.
3. **Bipedality** /ˌbaɪpəˈdælɪti/ (noun): The ability to walk on two feet.
4. **Grounded** /ˈgraʊndɪd/ (adjective): Having a part in contact with the ground; not airborne.
5. **Fossils** /ˈfɒs.əl/ (noun): The remains or impression of a prehistoric organism preserved in rock.
6. **Resembling** /rɪˈzembəl.ɪŋ/ (verb): To look like or be similar to another person or thing.

## Comprehension Questions

### Multiple Choice

1. What is a unique characteristic of how emus run compared to humans?

Option: Emus always keep one foot on the ground at medium speed

Option: Emus always have both feet off the ground when running

Option: Emus hop instead of run

Option: Emus fly instead of run



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2. What speed can emus reach when running with one foot always on the ground?
- Option: 20 km/h
  - Option: 30 km/h
  - Option: 40 km/h
  - Option: 50 km/h
3. According to the text, why did scientists study the running styles of emus?
- Option: To understand why birds run differently from other animals
  - Option: To develop a new running technique for humans
  - Option: To improve energy efficiency in vehicles
  - Option: To study the behavior of dinosaurs
4. What did scientists find about the efficiency of grounded running in birds?
- Option: It is always less efficient than having both feet off the ground
  - Option: It is sometimes more efficient for birds with different anatomy
  - Option: It is only efficient for small birds
  - Option: It is not a common running style in birds
5. What do fossils reveal about some dinosaurs in relation to modern running birds like emus?
- Option: Dinosaurs had wings like birds
  - Option: Dinosaurs could not run
  - Option: Dinosaurs had postures resembling modern running birds
  - Option: Dinosaurs were much larger than modern birds
6. According to researchers, what might grounded running in birds have evolved from?
- Option: Grounded running in birds evolved independently
  - Option: Grounded running evolved from fish
  - Option: Grounded running in birds might have evolved from non-avian dinosaurs
  - Option: Grounded running evolved from kangaroos

## Answer

**Multiple Choice:** 1. Emus always keep one foot on the ground at medium speed 2. 50 km/h 3. To understand why birds run differently from other animals 4. It is sometimes more efficient for birds with different anatomy 5. Dinosaurs had postures resembling modern running birds 6. Grounded running in birds might have evolved from non-avian dinosaurs

## Vocabulary quizzes



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

1. Which medication is commonly used to treat epilepsy?  
Option: Sodium valproate  
Option: Ibuprofen  
Option: Amoxicillin  
Option: Aspirin
2. What prefix is commonly used to refer to things related to the internet or technology?  
Option: Cyber  
Option: Geo  
Option: Bio  
Option: Aero
3. Which term refers to measures taken to ensure safety and protection?  
Option: Security  
Option: Hospitality  
Option: Flexibility  
Option: Transparency
4. What are preserved remains or traces of ancient organisms called?  
Option: Fossils  
Option: Crystals  
Option: Artifacts  
Option: Inventions
5. What are the cells that transmit information in the nervous system?  
Option: Neurons  
Option: Platelets  
Option: Fibroblasts  
Option: Tendons
6. What term is used to describe an animal that is hunted and eaten by another?  
Option: Prey  
Option: Predator  
Option: Herbivore  
Option: Omnivore
7. What process converts information into a code to prevent unauthorized access?  
Option: Encryption  
Option: Decryption  
Option: Transcription



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Option: Translation

8. Which branch of science studies the structure of organisms and their parts?

Option: Anatomy

Option: Ecology

Option: Botany

Option: Astronomy

9. Which birds are known for their red breasts?

Option: Robins

Option: Crows

Option: Eagles

Option: Sparrows

10. What characteristic refers to the ability to walk on two legs?

Option: Bipedality

Option: Quadrupedality

Option: Flight

Option: Swimming

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

11. The company issued a product \_\_\_\_\_ due to safety concerns.

12. She was \_\_\_\_\_ to succeed in her career despite facing challenges.

13. The documentary \_\_\_\_\_ the harsh realities of the industry.

14. The new system proved to be more \_\_\_\_\_ than the old one.

15. The decision to close the factory was highly \_\_\_\_\_ among the employees.

16. The student was \_\_\_\_\_ for cheating on the exam.

17. She was deeply \_\_\_\_\_ in the local community activities.

18. The trade embargo was officially \_\_\_\_\_ by the government.

19. Smoking has been proven to have \_\_\_\_\_ effects on health.

20. The painting was a beautiful landscape \_\_\_\_\_ a scene from the countryside.



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

21. The of a new species in the rainforest excited the scientific community.
22. The system allows us to experience the world through touch taste and smell.
23. Despite his success he remained humble and in his values.
24. The new manufacturing process was more and cost-effective.
25. Over time humans into the dominant species on the planet.
26. The product was recalled due to manufacturing that could pose a safety risk.
27. Customer is important for improving products and services.
28. Individuals have the right to protect their and personal information.
29. is a neurological disorder characterized by recurrent seizures.
30. Scientific is essential for advancing medical knowledge and treatments.

**Answer**

**Multiple Choice:** 1. Sodium valproate 2. Cyber 3. Security 4. Fossils 5. Neurons 6. Prey 7. Encryption 8. Anatomy 9. Robins 10. Bipedality

**Gap-Fill:** 11. recall 12. determined 13. exposed 14. efficient 15. controversial 16. punished 17. involved 18. sanctioned 19. harmful 20. resembling

**Matching sentence:** 1. discovery 2. sensory 3. grounded 4. efficient 5. evolved 6. defects 7. feedback 8. privacy 9. Epilepsy 10. research

**CATEGORY**

1. Sci/Tech - LEVEL2

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