Study Identifies Arrival of Bow and Arrow in North America

Description

Researchers found that the bow and arrow started to be used in North America about 1,400 years ago. This new weapon made hunting easier compared to the atlatl, a tool for throwing spears. The bow allowed people to shoot arrows farther and faster. It made hunting more efficient, but it was harder to make and use. Some people still used the atlatl in the north for many years.

The study used radiocarbon dating. This method checks the age of old objects made from once-living materials. Many old weapons were found in dry caves. These caves help to keep the weapons safe for a long time.

The researchers think the bow and arrow came from one main place. It spread quickly to many areas, but some regions changed how fast they adopted it. There is also evidence that people in other parts of the world also developed bow-and-arrow technology in different times. More research is needed to understand this better.

Vocabulary List:

1. **atlatl** //ˈæt.lət.əl// (noun): a tool used to throw long spears
2. **radiocarbon** //ˌreɪdi.oʊˈkɑrbən// (adjective): relating to carbon used to find age
3. **efficient** //ɪˈfɪʃənt// (adjective): works well with little time or effort
4. **adopted** //əˈdɑptɪd// (verb): started to use something new or different
5. **evidence** //ˈɛvɪdəns// (noun): things that show something is true
6. **technology** //tɛkˈnɑlədʒi// (noun): tools and methods for practical uses

Comprehension Questions

Multiple Choice

1. How long ago did researchers find that the bow and arrow started to be used in North America?

    Option: 500 years ago
    Option: 1,000 years ago
    Option: 1,400 years ago
    Option: 2,000 years ago

2. What was the main advantage of using the bow compared to the atlatl?

   Option: It was easier to make
   Option: It shot arrows farther and faster
   Option: It was lighter
   Option: It required less skill

3. What method did the study use to check the age of old objects?

   Option: Thermal dating
   Option: Potassium-argon dating
   Option: Radiocarbon dating
   Option: Luminescence dating

4. Where were many old weapons found according to the researchers?

   Option: In dense forests
   Option: In dry caves
   Option: On riverbanks
   Option: In the mountains

5. What is suggested about the development of bow-and-arrow technology in various parts of the world?

   Option: All regions adopted it quickly
   Option: It was developed at the same time everywhere
   Option: Some regions developed it at different times
   Option: It only developed in North America

6. What does the atlatl do?

   Option: It throws stones
   Option: It throws arrows
   Option: It throws spears
   Option: It shoots arrows

True-False

7. The bow and arrow was easier to make than the atlatl.

8. Many old weapons were preserved in dry caves.

9. The researchers believe the bow and arrow came from multiple places.

10. The atlatl was used by everyone in North America continuously since its invention.

11. The research indicated that more studies are needed to understand bow-and-arrow technology.

12. The bow and arrow made hunting less efficient than earlier tools.

Gap-Fill

13. The bow and arrow started to be used in North America about _____ years ago.

14. The bow allowed people to shoot arrows farther and _____ than the atlatl.

15. The study used _____ dating to check the age of old objects.

16. Many old weapons were found in _____ caves.

17. The researchers think the bow and arrow spread quickly to many areas, but some regions changed how

_____ they adopted it.

18. More research is needed to better understand bow-and-arrow technology and its

_____ across different regions.

Answer

Multiple Choice: 1. 1,400 years ago 2. It shot arrows farther and faster 3. Radiocarbon dating 4. In dry caves 5. Some regions developed it at different times 6. It throws spears
True-False: 7. False 8. True 9. False 10. False 11. True 12. False
Gap-Fill: 13. 1,400 14. faster 15. radiocarbon 16. dry 17. fast 18. development

Vocabulary quizzes

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

1. What type of cybersecurity threat involves malicious software that demands payment?
   Option: Malware
   Option: Ransomware

Option: Phishing
Option: Spyware

2. Which term refers to visual images or designs on a computer screen?

Option: Graphics
Option: Audio
Option: Interfaces
Option: Models

3. What term is used to describe a specific release of software?

Option: Update
Option: Version
Option: Edition
Option: Patch

4. What type of shelters do some spider species create in the ground?

Option: Hives
Option: Burrows
Option: Nests
Option: Caves

5. What is the term for a group of organisms that can interbreed?

Option: Genus
Option: Family
Option: Species
Option: Order

6. What term describes an organism at risk of extinction?

Option: Protected
Option: Endangered
Option: Vulnerable
Option: Stable

7. What are the input mechanisms used to operate a video game called?

Option: Controls
Option: Graphics
Option: Levels
Option: Scores

8. Which term means to make ready for a specific purpose?

Option: Plans
Option: Prepares
Option: Cultivates

Option: Creates

9. What is the term for taking on a new policy or technology?

Option: Implemented
Option: Adopted
Option: Established
Option: Persuaded

10. What term refers to the advancement towards a goal?

Option: Status
Option: Outcome
Option: Progress
Option: Growth

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

11. The field that deals with the protection of computer systems from theft or damage is called

_____ .

12. Some types of _____ construct burrows for shelter and protection.

13. The process of reproduction in many species is known as _____ .

14. Archaeologists use radiocarbon dating as _____ to determine the age of artifacts.

15. Rapid advancements in _____ have significantly changed our lives in the last

decade.

16. The latest software update includes several _____ for better performance.

17. Customer _____ is essential for resolving user issues effectively.

18. A _____ is required for the operating system to communicate with hardware devices.

19. The software's new release addresses several previously reported _____ .

20. The _____ is a tool used to throw spears more efficiently in ancient hunting.

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

21. Biological classification helps scientists organize living organisms into categories.
22. You can disable notifications to minimize distractions while working.
23. Some spider species use palps for mating and sensory functions.
24. The software update was released to enhance user experience and performance.
25. Using solar panels is an efficient way to harness renewable energy.
26. Technical support is crucial for troubleshooting software issues.
27. Cybersecurity professionals work to identify and mitigate potential threats to systems.
28. The research team is making steady progress on their study of tarantula behavior.
29. The online course provides rich content to help learners grasp complex subjects.
30. Recent improvements in technology have transformed communication methods.

Answer

Multiple Choice: 1. Ransomware 2. Graphics 3. Version 4. Burrows 5. Species 6. Vulnerable 7. Controls 8. Prepares 9. Adopted 10. Progress

Gap-Fill: 11. cybersecurity 12. tarantulas 13. mating 14. evidence 15. technology 16. improvements 17. support 18. driver 19. issues 20. atlatl

Matching sentence: 1. classification 2. disable 3. palps 4. released 5. efficient 6. support 7. threat 8. progress 9. content 10. improvements

CATEGORY

1. Sci/Tech - LEVEL1

POST TAG

1. bow and arrow
2. ESL
3. esl news
4. learning
5. Level 1
6. North America

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