



Revolutionary Technological Advancement 900,000 Years Ago: Uncovered by ScienceAlert

Description

Around 900,000 years ago, people in Spain started using advanced stone tools. Researchers from the University of Santiago de Compostela found the oldest example of this in Europe. These tools were likely made by our ancestors or other human species before us. The tools found at El Barranc de la Boella in northeastern Spain show a big improvement in technology. They were made using a specific method to make them all the same. People also made bigger tools for different tasks, showing they planned ahead.

This discovery is important because it shows that early humans were smart and planned ahead when making tools. The tools found in Spain are similar to ones found in Africa, suggesting they could have come from there. This shows that technology spread from Africa to Europe a long time ago. These early tools show that our ancestors were already thinking ahead and planning things.

300,000 years later, people made more advancements in tool use, leading to the tools we use today. The research was published in the Journal of Paleolithic Archaeology.

Vocabulary List:

1. **Advancements** /əd'væn(t)smənts/ (noun): Progress or improvements in a particular field or area.
2. **Technology** /tek'nɒlədʒi/ (noun): The application of scientific knowledge for practical purposes.
3. **Discovery** /dɪs'klʌvəri/ (noun): The act of finding or learning something for the first time.
4. **Planned** /plænd/ (verb): To arrange or prepare in advance.
5. **Similar** /'sɪmɪlər/ (adjective): Having characteristics in common; alike.
6. **Ancestors** /'ænsɛstərz/ (noun): People from whom one is descended; forebears.

Comprehension Questions

Multiple Choice

1. Approximately when did people in Spain start using advanced stone tools?
Option: Around 100,000 years ago
Option: Around 500,000 years ago



- Option: Around 900,000 years ago
- Option: Around 1,500,000 years ago

2. Where was the oldest example of advanced stone tools in Europe found?

- Option: Italy
- Option: Spain
- Option: France
- Option: Germany

3. What does the discovery of advanced stone tools in Spain suggest about early humans?

- Option: They were not skilled tool-makers
- Option: They did not plan ahead
- Option: They were smart and planned ahead when making tools
- Option: They were not capable of technological progress

4. What is one significant improvement seen in the advanced stone tools found in Spain?

- Option: They were made randomly
- Option: They were all identical in shape and size
- Option: They were made using wood
- Option: They were created by nature

5. Where were similar tools to those found in Spain also discovered?

- Option: Asia
- Option: Africa
- Option: Australia
- Option: South America

6. What did the early humans do to show they planned ahead with tool-making?

- Option: They randomly created tools
- Option: They made tools only for immediate use
- Option: They made bigger tools for different tasks
- Option: They used tools found in nature as they were

True-False

7. The tools found in Spain were made by aliens.

8. The discovery suggests that technology spread from Europe to Africa.



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9. The research on tool advancements was published in the Journal of Paleolithic Archaeology.
10. The tools found in Spain were all different in size and shape.
11. The advanced stone tools were made using a specific method to make them all the same.
12. The discovery shows that our ancestors were not capable of planning and thinking ahead.

Gap-Fill

13. People in Spain started using advanced stone tools around _____ years ago.
14. The tools found at El Barranc de la Boella in northeastern Spain show a big improvement in
_____.
15. 300,000 years later, people made more advancements in tool use, leading to the tools we use
_____.
16. The oldest example of advanced stone tools in Europe was found at El Barranc de la
_____.
17. Early humans in Spain made bigger tools for different _____.
18. The tools found in Spain suggest technology spread from _____ to Europe.

Answer

Multiple Choice: 1. Around 900,000 years ago 2. Spain 3. They were smart and planned ahead when making tools 4. They were all identical in shape and size 5. Africa 6. They made bigger tools for different tasks

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

Gap-Fill: 13. 900,000 14. technology 15. today 16. Boella 17. tasks 18. Africa

Vocabulary quizzes



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

1. What drives progress in various fields and industries?
Option: Dormancy
Option: Advancements
Option: Technology
Option: Ancestors
2. Who studies the properties and interactions of matter and energy?
Option: Memory
Option: Researchers
Option: Physicists
Option: Particles
3. Which disease affects the central nervous system and can cause tremors and difficulty with movement?
Option: Resist
Option: Dementia
Option: Parkinson
Option: Inflammation
4. What are the elementary particles that combine to form protons and neutrons?
Option: Gluons
Option: Quarks
Option: Neutrons
Option: Particles
5. What branch of physics deals with the behavior of very small particles like photons and electrons?
Option: Visceral
Option: Active
Option: Quantum
Option: Subcutaneous
6. Which B vitamin is essential for converting food into energy?
Option: Toxins
Option: Biotin
Option: Riboflavin
Option: Memory
7. In what way do different species live together without causing harm to each other?
Option: Resilient
Option: Survive
Option: Resist



Option: Coexist

8. Who conducts systematic investigations to establish facts or reach new conclusions?

Option: Memory

Option: Active

Option: Quantum

Option: Researchers

9. What term is used to describe finding or learning something previously unknown or unseen?

Option: Similar

Option: Discovery

Option: Planned

Option: Ancestors

10. What is the ability of an organism to adjust to its environment for survival?

Option: Adapt

Option: Particles

Option: Gluons

Option: Quarks

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

11. In biology organisms that share _____ characteristics are often classified together.

12. Alzheimer's disease is associated with a decline in cognitive function and _____ loss.

13. Genetic traits are passed down from our _____ and can influence our physical appearance.

14. Organisms with advantageous traits are more likely to _____ and reproduce in a given environment.

15. Regular physical exercise helps to keep the body _____ and healthy.

16. Exposure to environmental pollutants and harmful substances can lead to the accumulation of _____ in the body.

17. Chronic _____ in the body can contribute to the development of various diseases.



18. Older adults may experience cognitive decline and memory loss as a result of _____.
19. The construction of a new city is a complex project that requires careful _____ and execution.
20. Antibiotics are used to help the body _____ bacterial infections.

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

21. Subatomic particles found in the nucleus of an atom along with protons.
22. Fundamental units of matter that make up the universe and interact through forces.
23. Quantum particles that mediate the strong force which holds quarks together.
24. The ability to recover from difficulties and maintain stability and adaptability.
25. Located or placed just beneath the skin such as a subcutaneous injection.
26. Connect or associate one thing with another due to a relationship or connection.
27. A B vitamin that plays a key role in metabolism and energy production.
28. A state of minimal activity or reduced metabolic rate often to survive harsh conditions.
29. Technological and scientific progress leading to new innovations and discoveries.
30. Past generations from which individuals or species are descended.

Answer

Multiple Choice: 1. Advancements 2. Physicists 3. Parkinson 4. Quarks 5. Quantum 6. Riboflavin 7. Coexist 8. Researchers 9. Discovery 10. Adapt

Gap-Fill: 11. Similar 12. Memory 13. Ancestors 14. Survive 15. Active 16. Toxins 17. Inflammation 18. Dementia 19. Planned 20. Resist

Matching sentence: 1. Neutrons 2. Particles 3. Gluons 4. Resilient 5. Subcutaneous 6. Linked 7. Biotin 8. Dormancy 9. Advancements 10. Ancestors

CATEGORY

1. Health - LEVEL2



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