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## Chimps Thrive with Audience During Tough Tasks

### Description

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Chimpanzees, our closest relatives, were tested on numerical tasks to see how they performed under different audience sizes. The tasks ranged from easy to difficult, involving touching numbers in the correct order on a touch screen to get a food reward. The study, conducted at Kyoto University in Japan, spanned six years and included varying audience sizes, from one to eight human observers.

Surprisingly, the chimpanzees' performance varied depending on the task difficulty and the size of the audience. When the tasks were easier, more observers led to lower performance. However, on the most difficult task where numbers were hidden behind squares, the chimpanzees did better with larger audiences.

Researchers were amazed by this audience effect in chimpanzees, suggesting it might have evolved in the ape lineage. The study shed light on how audience presence can influence performance, even in non-human species. Further research could explore the relationship between this effect and individual chimpanzee personalities.

This study not only provides insights into chimpanzee behavior but also hints at possible connections between human and chimpanzee social dynamics.

## Vocabulary List:

1. **Chimpanzees** /,tʃɪm'pæn.zi:z/ (noun): A species of great ape known for its intelligence and social behavior.
2. **Numerical** /nju:'mیریکəl/ (adjective): Relating to or expressed in numbers.
3. **Performance** /pər'fɔ:r.məns/ (noun): The action or process of carrying out or accomplishing a task.
4. **Audience** /'ɔ:di.əns/ (noun): A group of people who gather to watch or listen to a performance.
5. **Influence** /'ɪn.flu.əns/ (verb): To have an effect on the character development or behavior of someone or something.
6. **Dynamics** /dai'næm.ɪks/ (noun): The forces that stimulate growth development or change within a system or process.

## Comprehension Questions

### Multiple Choice

1. What were chimpanzees tested on in the study mentioned?

- Option: Memory tasks
- Option: Numerical tasks
- Option: Physical tasks
- Option: Problem-solving tasks

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2. Where was the study testing chimpanzees conducted?

- Option: Kyoto University in Japan
- Option: Oxford University in the UK
- Option: Harvard University in the USA
- Option: University of Sydney in Australia

3. How many years did the study on chimpanzees span?

- Option: 3 years
- Option: 4 years
- Option: 6 years
- Option: 8 years

4. What did researchers find about chimpanzees' performance with larger audiences in the most difficult task?

- Option: It increased
- Option: It decreased
- Option: It remained the same
- Option: It fluctuated

5. What did the study suggest about the audience effect in chimpanzees?

- Option: It is unique to chimpanzees
- Option: It may have evolved ~~in~~ the ape lineage
- Option: It is similar to human behavior
- Option: It has no significant impact

6. What aspect of chimpanzee behavior did the study provide insights into?

- Option: Communication
- Option: Social hierarchy
- Option: Problem-solving skills
- Option: Audience influence

### True-False

7. Chimpanzees performed consistently regardless of audience size in the study.

8. The study on chimpanzees took place in Australia.

9. The audience effect observed in chimpanzees is a recent phenomenon.

10. Further research could investigate the link between audience effect and individual chimpanzee personalities.

11. The study on chimpanzees did not consider the task difficulty in relation to audience size.

12. Chimpanzees showed better performance with more observers on harder tasks in the study.

### Gap-Fill

13. The study on chimpanzees at Kyoto University in Japan spanned six \_\_\_\_\_.

14. Chimpanzees were tested on numerical tasks of varying difficulty at Kyoto University over a period of six

15. The most difficult task in the study involved chimpanzees touching numbers hidden behind

16. The audience effect observed in the study could have evolved in the \_\_\_\_\_.

17. The study suggested a relationship between the audience effect and individual chimpanzee

18. The researchers were amazed by the impact of \_\_\_\_\_ on chimpanzees' performance.

### Answer

**Multiple Choice:** 1. Numerical tasks 2. Kyoto University in Japan 3. 6 years 4. It increased 5. It may have evolved in the ape lineage 6. Audience influence

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

**Gap-Fill:** 13. years 15. squares 16. ape lineage 17. personalities 18. audience presence

### Vocabulary quizzes

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



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1. What refers to the gases released into the atmosphere as a result of human activities?

- Option: Fossil Fuels
- Option: Emissions
- Option: Drought
- Option: Chimpanzees

2. What digital currency uses cryptography for security and operates independently of a central bank?

- Option: Numerical
- Option: Cryptocurrency
- Option: Impacting
- Option: Cuneiform

3. What are specific rules and guidelines that must be followed for a particular process or technology?

- Option: Dynamics
- Option: Cryptocurrency
- Option: Initiative
- Option: Protocols

4. Which species of apes are known for their high level of intelligence and use of tools?

- Option: Cryptocurrency
- Option: Chimpanzees
- Option: Decentralized
- Option: Artifacts

5. What policy involves reducing or eliminating government regulations on industries?

- Option: Optimism
- Option: Deregulation
- Option: Impacting
- Option: Compliance

6. What process involves putting a decision plan or law into effect?

- Option: Audience
- Option: Surge
- Option: Implementing
- Option: Exposure

7. What term describes the capability or possibility for future growth or success?

- Option: Restricting
- Option: Potential
- Option: Emissions
- Option: Chimpanzees

8. What verb describes the effect or influence something has on its surroundings?

- Option: Cryptocurrency
- Option: Impacting
- Option: Transitioning
- Option: Dynamics

9. What term refers to the act of adhering to specific laws regulations or standards?

- Option: Cryptocurrency
- Option: Compliance
- Option: Drought
- Option: Symbols

10. What term refers to the forces or properties that stimulate growth development or change?

- Option: Chimpanzees
- Option: Impacting
- Option: Dynamics
- Option: Decentralized

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

11. Many countries are \_\_\_\_\_ to renewable energy sources to combat climate change.

12. The need to address climate change is extremely \_\_\_\_\_.

13. There has been a \_\_\_\_\_ in interest in sustainable investing.

14. Despite the challenges there is a sense of \_\_\_\_\_ about the future.

15. Increased \_\_\_\_\_ to air pollution can have serious health implications.

16. Some countries are considering \_\_\_\_\_ the use of single-use plastics.

17. Community clean-up drives are a great \_\_\_\_\_ to involve citizens in environmental conservation.

18. Blockchain technology operates on a \_\_\_\_\_ network rather than a central server.

19. Archaeologists uncovered ancient \_\_\_\_\_ that shed light on early human civilizations.

20. The project required a \_\_\_\_\_ effort from multiple departments to succeed.

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

21. These sources of energy such as coal and oil are non-renewable and contribute to greenhouse gas emissions.

22. Mathematical values or quantities that involve numbers or numerical representations.

23. One of the earliest forms of writing consisting of wedge-shaped symbols pressed into clay tablets.

24. The precursor to cuneiform script characterized by simpler pictorial representations.

25. Representations that stand for or suggest something else often with a deeper meaning.

26. The group of people targeted by a message performance or communication.

27. The capacity to have an effect on the character development or behavior of someone or something.

28. The action of putting a decision plan or law into effect or action.

29. Specific rules guidelines or agreements that must be followed for a particular process or technology.

30. The forces or properties that stimulate growth development or change within a system or situation.

## Answer

**Multiple Choice:** 1. Emissions 2. Cryptocurrency 3. Protocols 4. Chimpanzees 5. Deregulation 6. Implementing 7. Potential 8. Impacting 9. Compliance 10. Dynamics

**Gap-Fill:** 11. transitioning 12. urgent 13. surge 14. optimism 15. exposure 16. restricting 17. initiative 18. decentralized 19. artifacts 20. collaborative

**Matching sentence:** 1. Fossil Fuels 2. Numerical 3. Cuneiform 4. Proto-cuneiform 5. Symbols 6. Audience 7. Influence 8. Implementing 9. Protocols 10. Dynamics

## CATEGORY

1. Sci/Tech - LEVEL3

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