



# Enhancing Student Safety: AI Tech on Canyons School Buses

## Description

The Canyons School District is introducing a new system to keep students safe during the 2024-25 school year. The system uses GPS and artificial intelligence to detect if a bus driver is ill, injured, or distracted. If any issues are found, district officials are alerted right away. The new technology, called Samsara, is installed on all 189 buses in the district. Each bus already had cameras, but now the AI system will track each driver's behavior. The system can recognize if a driver is distracted, such as looking away from the road or using a cell phone. It can also monitor how the bus is being driven. This new system will help improve safety for students and drivers. The district is also using a GPS program called Wayfinder to pre-program bus routes, making it easier for drivers to navigate. The district spent about \$500,000 on this new technology to prioritize student safety.

## Vocabulary List:

1. **Artificial** /ˌɑːtrɪˈfɪəl/ (adjective): Made or produced by human beings rather than occurring naturally.
2. **Distracted** /dɪˈstræktɪd/ (adjective): Unable to concentrate because one's mind is preoccupied.
3. **Monitor** /ˈmɒnɪtər/ (verb): To observe and check the progress or quality of something over a period of time.
4. **Navigating** /ˈnævɪɡeɪtɪŋ/ (verb): Planning and directing the course of a route.
5. **Technology** /tekˈnɒlədʒi/ (noun): The application of scientific knowledge for practical purposes.
6. **Prioritize** /praɪˈɒrɪtaɪz/ (verb): To decide the importance of tasks and arrange them in order of importance.

## Comprehension Questions

### Multiple Choice

1. What technology is being used by the Canyons School District to keep students safe during the 2024-25 school year?

- Option: Artificial intelligence
- Option: Virtual reality
- Option: Blockchain
- Option: Quantum computing



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2. How many buses in the Canyons School District have the new Samsara technology installed?

- Option: 50 buses
- Option: 100 buses
- Option: 150 buses
- Option: 189 buses

3. What behavior can the AI system recognize in bus drivers?

- Option: Happiness
- Option: Drowsiness
- Option: Anger
- Option: Excitement

4. What program is being used by the district to pre-program bus routes?

- Option: Samsara
- Option: Wayfinder
- Option: GPS Tracker
- Option: Driver Assist

5. How much did the Canyons School District spend on the new technology for student safety?

- Option: \$100,000
- Option: \$250,000
- Option: \$500,000
- Option: \$1,000,000

6. What can the GPS and AI system detect in bus drivers?

- Option: Excitement
- Option: Fatigue
- Option: Overjoy
- Option: Confidence

## Answer

**Multiple Choice:** 1. Artificial intelligence 2. 189 buses 3. Drowsiness 4. Wayfinder 5. \$500,000 6. Fatigue

## Vocabulary quizzes

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



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1. Which term refers to the process of creating something new or introducing new ideas or methods?  
Option: Engage  
Option: Helium-3  
Option: Corruption  
Option: Innovation
  2. What is the term used to describe the application of scientific knowledge for practical purposes?  
Option: Develop  
Option: Artificial  
Option: Technology  
Option: Skepticism
  3. Who are advocates for the protection of the environment and sustainable practices?  
Option: Campaign  
Option: Promoting  
Option: Environmentalists  
Option: Prototype
  4. Which term means to observe supervise or regulate a process or activity?  
Option: Nuclear Fusion  
Option: Monitor  
Option: Rotating  
Option: Concerns
  5. What form of energy is produced from the movement of electrons?  
Option: Ineffective  
Option: Electricity  
Option: Commitment  
Option: Integrating
  6. What term describes the state of being unable to concentrate or focus?  
Option: Allegations  
Option: Engage  
Option: Distracted  
Option: Monitoring
  7. Which term denotes dedication and loyalty to a cause or relationship?  
Option: Prioritize  
Option: Artificial  
Option: System  
Option: Commitment



8. What word describes the effect or influence that an event or action has?

- Option: Skepticism
- Option: Impact
- Option: Prototype
- Option: Manipulated

9. Which term refers to dishonest or fraudulent conduct by those in power?

- Option: Develop
- Option: Corruption
- Option: Promoting
- Option: Campaign

10. What is the term for arranging tasks or goals in order of importance?

- Option: Organic
- Option: Prioritize
- Option: Innovation
- Option: Navigating

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

11. \_\_\_\_\_ new technologies into existing systems can enhance efficiency.

12. There is a lot of \_\_\_\_\_ surrounding the new government policy.

13. The engineers are working on a new \_\_\_\_\_ of the device.

14. The political party launched a new advertising \_\_\_\_\_.

15. It takes time to \_\_\_\_\_ a good relationship with clients.

16. Some argue that intelligence from machines is \_\_\_\_\_ and lacks creativity.

17. The data was \_\_\_\_\_ to show favorable results.

18. The Earth's \_\_\_\_\_ movement causes day and night.

19. Many people prefer to buy \_\_\_\_\_ produce for its health benefits.

20. To \_\_\_\_\_ customers companies often use social media platforms.



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

21. is a potential fuel for future nuclear fusion reactors.
22. is a process that powers the sun and stars.
23. Regular is essential to ensure the system functions properly.
24. Addressing environmental requires global cooperation.
25. The company faces serious of employee mistreatment.
26. Before mass production companies often create a product for testing.
27. The outdated equipment proved in the new manufacturing process.
28. Companies use various strategies for their products to a wider audience.
29. In unfamiliar territories a compass can help you your way.
30. A well-designed operating can streamline business processes.

**Answer**

**Multiple Choice:** 1. Innovation 2. Technology 3. Environmentalists 4. Monitor 5. Electricity 6. Distracted 7. Commitment 8. Impact 9. Corruption 10. Prioritize

**Gap-Fill:** 11. Integrating 12. Skepticism 13. Prototype 14. Campaign 15. Develop 16. Artificial 17. Manipulated 18. Rotating 19. Organic 20. Engage

**Matching sentence:** 1. Helium-3 2. Nuclear Fusion 3. Monitoring 4. Concerns 5. Allegations 6. Prototype 7. Ineffective 8. Promoting 9. Navigate 10. System

**CATEGORY**

1. Sci/Tech - LEVEL1

**Date Created**

2024/08/20

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