

Name:

Date:

Exploring Smart Cities & AI in Transportation

Instructions: Read the passages below and answer the questions.

Singapore and Tokyo are considered leading smart cities, where advanced technologies like AI are integrated into daily life. Smart cities use data and technology to improve services like transportation and energy efficiency.

1. What are smart cities?

- A) Cities with lots of traffic
- B) Cities that use data and technology to improve services
- C) Cities with many skyscrapers

2. How does AI help in smart cities?

- A) It makes traffic worse
- B) It improves transportation and energy efficiency
- C) It creates more pollution



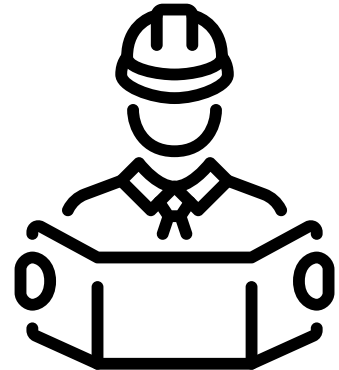
Transportation engineers play a crucial role in designing efficient transportation systems in cities. They analyze traffic patterns, road conditions, and public transportation needs to create solutions that improve daily commutes and reduce congestion.

1. What do transportation engineers do?

- A) Design buildings
- B) Analyze traffic patterns and improve transportation systems
- C) Write books about city planning

2. How do transportation engineers help cities?

- A) They make traffic worse
- B) They improve daily commutes and reduce congestion
- C) They create more roadblocks



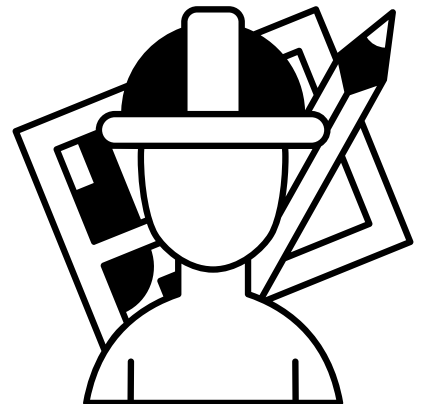
Urban planners are responsible for designing the layout of cities to ensure they are functional and sustainable. They consider factors like population growth, environmental impact, and community needs to create plans that promote livability and efficiency.

1. What do urban planners do?

- A) Design parks and recreation centers
- B) Plan the layout of cities and neighborhoods
- C) Study ancient civilizations

2. How do urban planners contribute to cities?

- A) They make cities less livable
- B) They promote sustainability and efficiency
- C) They increase traffic congestion



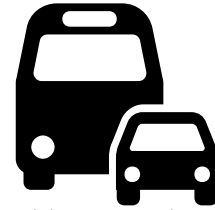
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Design Your Own Smart City !

Imagine you are a transportation engineer or urban planner.

Follow the steps below to design a smart city using drawings and descriptions.



1. **Draw Your Smart City:** Create a detailed picture of your smart city. Include buildings, roads, parks, and transportation systems.
2. **Label the Smart Technologies:** Next to each feature of your smart city, write labels to describe how AI or technology helps. For example, label a traffic light and describe how AI could make it work more efficiently.
3. **Write a Description:** Below your drawing, write a short paragraph (3-5 sentences) explaining why your city is smart and how AI technology makes it better than a regular city.