

Modernizing Agriculture in the 21st Century

Read the Passage and answer the questions that follow:

In the 21st century, there have been significant advancements in agriculture that have helped farmers grow more food efficiently. New technologies and techniques have played a big role in making farming more productive. One important advancement is the use of precision farming, where farmers use GPS and sensors to plant seeds and apply fertilizers more precisely. This helps in using resources like water and fertilizers more efficiently, reducing waste.

Genetic engineering is another important aspect of agricultural advancement. Scientists have developed crops that are more resistant to pests and diseases, which means farmers can use fewer chemicals. This is good for the environment and also helps in producing healthier crops.

Moreover, smart farming practices involve using data and technology to make better decisions on the farm. Farmers can monitor the health of their crops, control irrigation systems, and manage livestock more effectively with the help of modern technology.

These advancements are crucial because they contribute to ensuring a stable and secure food supply for our growing global population. By embracing new technologies and innovative approaches, agriculture in the 21st century is striving to be more sustainable, environmentally friendly, and capable of feeding the world's ever-increasing population.





Name: _____

Date: _____

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1. What are some advancements in agriculture mentioned in the passage?

2. How does precision farming contribute to resource efficiency in agriculture?

3. What is the role of genetic engineering in modern agriculture, according to the passage?



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4. What is smart farming, and how does it benefit farmers?

5. Why are the advancements in agriculture in the 21st century considered crucial, as mentioned in the passage?



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1. What are some advancements in agriculture mentioned in the passage?

Answer: The passage mentions advancements such as precision farming, genetic engineering of crops, and the implementation of smart farming practices.

2. How does precision farming contribute to resource efficiency in agriculture?

Answer: Precision farming uses technologies like GPS and sensors to plant seeds and apply fertilizers more precisely. This contributes to resource efficiency by using water and fertilizers more accurately, reducing waste in the process.

3. What is the role of genetic engineering in modern agriculture, according to the passage?

Answer: Genetic engineering in modern agriculture involves developing crops that are more resistant to pests and diseases. This helps farmers use fewer chemicals, benefiting the environment and leading to the production of healthier crops.

4. What is smart farming, and how does it benefit farmers?

Answer: Smart farming involves using data and technology to make better decisions on the farm. Farmers can monitor crop health, control irrigation systems, and manage livestock more effectively. This benefits farmers by enhancing their ability to make informed decisions and optimize their farming practices.

5. Why are the advancements in agriculture in the 21st century considered crucial, as mentioned in the passage?

Answer: The advancements in agriculture in the 21st century are considered crucial because they contribute to ensuring a stable and secure food supply for the growing global population. By embracing new technologies and innovative approaches, agriculture aims to be more sustainable, environmentally friendly, and capable of meeting the food needs of the world's increasing population.