

# EARTHRISE English Logic and Expression III Advanced

## Lesson 5 Smart agriculture [教科書 pp. 36-39]

### 提出用シート

#### Listening Quiz

1. \_\_\_\_\_ 2. \_\_\_\_\_

#### Task 1

##### ●About the dialog

- (1) \_\_\_\_\_  
(2) \_\_\_\_\_  
(3) \_\_\_\_\_

##### ●About the news article

① When was this article published?	
② Why has the city started the Smart Farm Project?	To respond to • _____ • _____
③ According to the city spokesperson, what changes will smart agriculture bring about?	• _____ • _____

#### Task 2

Advantage(s)	• _____
Disadvantage(s)	• _____

Your ideas

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Other students' ideas

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## Lesson 5 Smart agriculture [教科書 pp. 36-39]

### 解答例

#### Listening Quiz

1. True      2. False

#### Task 1

##### ●About the dialog

- (1) He says it means using modern technologies like AI to make farming more efficient.  
(2) (AI can use data from soil sensors) to automatically adjust the amount of water that crops are given.  
(3) He thinks it will make their lives much easier.

##### ●About the news article

① When was this article published?	July 7, 2023
② Why has the city started the Smart Farm Project?	To respond to • climate change • the severe labor shortage in agriculture
③ According to the city spokesperson, what changes will smart agriculture bring about?	• (It will) make farming more efficient. • (It will) increase crop production.

#### Task 2

Advantage(s)	• Needs less human labor • Raises food sufficiency	• Easy to control crop quality
Disadvantage(s)	• Requires some IT skills • Machines may break down.	• Machines and technologies cost a lot.

#### Your ideas

Smart agriculture may solve the labor shortage in agriculture, but acquiring the machines and other IT tools needed will cost a lot of money. I think it will take some time, therefore, for smart agriculture to become common.

#### Other students' ideas

The machines and IT tools needed for smart agriculture will certainly cost a lot, but they will pay for themselves in the long run. Moreover, smart agriculture will attract young people who are familiar with IT tools.

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### Task 3

①

Agree	Disagree
Japan's farming population is growing older.	Machines are expensive.

②

- Smart agriculture will change the image of farming, so it will attract more young people.
- Introducing new technologies is difficult for people without specialized knowledge, so it would be a great burden on farmers.

③ Your position: Agree /  Disagree

- The machines needed for smart agriculture cost a lot of money, and not every farmer will be able to afford them.
- Japan's farming population is growing older, and many farmers will be reluctant to use modern technologies.

### Task 4

I do not think smart agriculture will become common in Japan in the future for two reasons. First, the machines that are needed cost a lot of money. Many farmers in Japan are self-employed and operate only small businesses, so they will not be able to afford to buy or rent expensive machines. In addition, Japan's farming population is growing older, and I am sure many farmers would rather use their own experience than rely on modern technologies. For them, growing crops is something that should be done with the hands, not with machines.

Class \_\_\_\_\_ No. \_\_\_\_\_ Name \_\_\_\_\_