



Name _____

Class _____

Student Worksheet

Thought-starter: How much food will we need in the future?

Population Growth and Food Security

1. Work in pairs to open this website - <https://www.worldometers.info/world-population/#pastfuture>.

Spend some time looking at the data on this site, and record your thoughts in response to the following questions:

Which countries have the largest populations?

How does Australia's population density compare with other countries?

What is the projected global population for 2040 (the year the documentary is concerned with)?

What other information do you find interesting or surprising on this website?

2. Now consider why food security might be a problem for future populations.

The following are a range of factors that may affect food security in the future. Your group will be assigned one number (from 1-4) that correlates with one of the factors:

1. Consumption patterns - The amounts and types of food we demand will change according to the amount of money people have to spend on food, on food trends and nutritional information.
2. Climate change - Climate change is expected to affect the types of food we can produce, and where and how much we can produce.
3. Ecological health - Things like pollution, biodiversity degradation, and changes to marine and terrestrial environments will all affect the quantity and quality of the food we produce.
4. Human influences - Issues like political disruption, trade sanctions or war can affect how food is distributed.

Working in your groups, undertake research in order to answer the following question about the factor you have been assigned (NOTE: You should work in your groups to research and answer these questions; however, each student is responsible for recording their own answers in their own words):

What factor have you been assigned?

Why is this an important issue with regards to food security?

What are the key points about this factor in relation to food security?

Solutions

Read the following:

There are many people in the world who are anticipating food security issues following any number of apocalyptic events. Some of these people are preparing for this situation by stocking canned and dried foods and buying water purification tablets for themselves and their families. However, this is certainly not the only way to ensure sustainable access to food in the future for all members of a community.

Your task now is to develop a more sustainable solution to food security for your community. This may include:

- Exploring what resources are already available (e.g. what local sources of production already exist?),
- How food production could be strengthened and improved (e.g. what other opportunities for food production exist in your community?)
- How the community could get involved (e.g. how the community could ensure they are utilising food effectively).

NOTE: You may need to undertake research about what already exists in your community.

Working in groups you should develop one or more ideas for action, and explain how your ideas relate to at least two of the following three factors of food security:

- Access
- Availability
- Utilisation

Each group needs to produce a three-slide presentation to describe your idea/s.

Reflection

Think about what you looked at in this lesson and the activities you did and answer the questions below:

How was the information you covered in this lesson CONNECTED to what you already knew?

What new ideas did you get that EXTENDED or pushed your thinking in new directions?

What is still CHALLENGING or confusing for you to get your mind around?
What questions do you now have?

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