Key Stage 4
Food Security in the Future

Student worksheet

Introduction

The state of having reliable access to a sufficient quantity of affordable, nutritious food is known as food security. Despite ongoing improvements to agricultural techniques, scientists are predicting global food shortages in the not too distant future.

There are many significant threats to future food security and each will require serious consideration, research and effort to combat. Examples of such efforts include that of research being undertaken at the University of Oxford that seeks to evaluate the role of photosynthetically related proteins in order to develop more robust crops in the face of climate change.

In the following activity, you will be introduced to and encouraged to consider some of the major threats to food security in the future.

Your task

Using the video clips shown by your teacher and your own research, produce a presentation summarising the risks to future food security. Your presentation should conclude with 3 proposed actions that can be achieved to alleviate this potential crisis. The presentation should be no more than 10 mins long and should be aimed as a briefing to the government’s environmental minister.

Keys to success

- Clearly identify a range of threats to food security (try to have one slide per threat). The very best presentations will use research to present threats not covered in the below video links.
- Make use of eye-catching images and statistics to capture your audience’s attention and that highlight the problem.
- Propose clear actions that can be taken to reduce the risk of food shortages in the future. For each, you should be able to explain why you have prioritised it and how it can be achieved.

Useful links

- [https://www.oxfordsparks.ox.ac.uk/content/hardy-crops-tackle-food-insecurity](https://www.oxfordsparks.ox.ac.uk/content/hardy-crops-tackle-food-insecurity)
- [https://www.youtube.com/watch?v=NxvQPzrg2Wg](https://www.youtube.com/watch?v=NxvQPzrg2Wg)
- [https://www.youtube.com/watch?v=AYPGOoiy8g](https://www.youtube.com/watch?v=AYPGOoiy8g)
- [https://www.youtube.com/watch?v=nTVOH8-xb1](https://www.youtube.com/watch?v=nTVOH8-xb1)
- [https://www.foodsecurity.ac.uk/activities/](https://www.foodsecurity.ac.uk/activities/)