

Feeding the 9 Billion: General teaching ideas

Lesson 1

The aim is to enable students to make synoptic links between global population change and food supply issues.

The approach to this lesson should be to encourage discussion through the direction of focused questioning.

The learning outcomes should be a synoptic view of the challenges facing the world as the population continues to rise.

Synoptic links to ensure each student has achieved:

1. Climate change – the link to increasing global surface temperatures resulting in change in the production of food across the world.
2. Changing price of staple food groups – the link to increased hunger, poverty and malnourishment.
3. Political instability – the link to the Arab Spring and other local conflicts which can often be traced to changes in food prices.
4. It would also be helpful to set this work within the framework of the Millennium Development Goals where the aim of MDG 1 is to eradicate extreme poverty and hunger, with the specific objective of halving the proportion of people who suffer hunger by 2015. For more details on this MDG please see <http://www.un.org/millenniumgoals/poverty.shtml>

Lesson 2

The lesson aims to discover a range of options to feeding a rising population. The lesson promotes student led learning and develops research and presentation skills.

The ones selected here are simply those discussed at the 21st Century Challenges discussion evening (see link below), but you could easily select others to use instead. This unit also provides new materials to develop existing schemes of work and to illustrate developments in the early 21st century which can be compared to previous work to address global hunger, such as the Green Revolution of the 1940-60s.

The lesson could be taught as an enquiry lesson with information packs provided or in the computer room encouraging students to carry out their own research.

Video clips and other information about the Feeding the 9 Billion debate which was held at the Royal Geographical Society (with IBG) are available on this link
<http://www.21stcenturychallenges.org/challenges/food-matters/>

These include presentations and Q&A by the following:

JAY RAYNER (CHAIR) Food critic, presenter and author

TIM WHEELER, Professor of Crop Science, University of Reading

PETER SMITHERS, Entomologist, Plymouth University

EDD COLBERT, Campaigns Coordinator, The Pig Idea

Links to further information

Other food security resources:

- Global Food Security <http://www.foodsecurity.ac.uk/resources/schools.html>
- Food security school debate kit <http://www.foodsecurity.ac.uk/assets/pdfs/food-security-debate-kit.pdf>
- Society of Biology food security resources for schools <https://www.societyofbiology.org/get-involved/biologyweek/schools>
- Fair Trade Wales: Resources for schools <http://fairtradewales.com/resources/resources-for-school>

Links specific to the speakers, their work and the event itself

- ENTO has a great video linking insect protein to food security <http://www.eat-ento.co.uk/index.php/our-story/>
- The Pig Idea [food](http://thepigidea.org/the-solution.html#facts) waste facts, figures and FAQ <http://thepigidea.org/the-solution.html#facts>
- Blog post summary of Feeding the 9 billion by teacher Graham Eyre <http://graemeeyre.info/?p=1185>

For more resources on Global Issues please see the following:

- www.rgs.org/glp