

WJEC England Biology GCSE

6.4 - The challenges of increasing food yields

Flashcards

This work by [PMT Education](https://www.pmt.education) is licensed under [CC BY-NC-ND 4.0](https://creativecommons.org/licenses/by-nc-nd/4.0/)



What issues are a rising human population creating for the environment?



What issues are a rising human population creating for the environment?

- More land is needed for housing, leisure, industry
- More resources like timber are required
- More area is needed for farming and food production



What does the Environment Agency do?



What does the Environment Agency do?

They protect the environment by managing the use of resources and conserving biodiversity



Describe the process development plans
go through before approval



Describe the process development plans go through before approval

- The plan is outlined and put forward to governing body
- Considerations are made about the impact of the building project on local ecosystems
- Biologists assess the full environmental impact, particularly considering endangered species
- The plan is then either accepted, rejected or modified



Give 5 factors that affect food security



Give 5 factors that affect food security

- The human population size
- The number of pests and pathogens
- Global warming and climate change
- Wealthier parts of the population requiring a larger variety of food
- The high cost of farming methods



What is mycoprotein?



What is mycoprotein?

A type of protein produced by the fungus
Fusarium



How is mycoprotein manufactured on a large scale?



How is mycoprotein manufactured on a large scale?

Large vats called fermenters are used to grow lots of the fungus



Give 3 advantages of mycoprotein over protein sourced from animal meat



Give 3 advantages of mycoprotein over protein sourced from animal meat

- Mycoprotein is suitable for vegans
- It typically contains less fat than animal meat
- It can be grown on a very large scale quickly in comparison



How can gene technology help agriculture?



How can gene technology help agriculture?

Beneficial genes for pest resistance or the ability to grow in harsher conditions could be introduced

