

Year 9: Plentiful Planet



Lessons:

1. Intro and water
2. Our fresh water supply
3. Fossil Fuel Energy
4. Renewable electricity
5. Food security
6. Solutions to food security
7. Our fresh water supply
8. Fossil Fuel Energy
9. Renewable electricity
10. Food security
11. Solutions to food security
12. Intro to Microclimate SOW
13. Fieldwork and homework questionnaires
- 14-15.. IT—Writing up Fieldwork—data into graphs
- 16—17 Assessed presentations.

Broad overview:

This topic is a look into the earth's natural resources and how humans use and rely on them for survival. We study how some people use more resources than others and the impacts of this on people and the planet. Importantly we spend time considering solutions to these impacts that are both good for the planet as well as for poorer communities to aid their development.

Pupils will also have time to work in groups to create their own piece of research related windfarms, a fresh water pond or an allotment. They will write up their project and present their findings to the class.

Assessment:

Mid Unit Test:

End of Unit Presentation

Keywords

Sustainable, water, energy, food, security, insecurity, deficit, surplus, development, renewable, intermediate technology, problems, solutions, distribution, uneven, risk, system, Climate change, fossil fuels, energy, CO2, greenhouse gases, energy sources, deforestation, agriculture, urbanisation, intensive farming, organic farming, insects, ethical food, food waste.

Microclimate, weather, measurements, field work, team work, safety, sensible, presentation, graphs, respectful, listening,

Links to KS3

Fantastic Places — solutions for unsustainable actions that harm the planet

Weather

Climate Change

Links to GCSE and A Level

Sustainable use of the earth's natural resources

Solutions to resource insecurity

Solutions for sustainable use of resources

Fieldwork techniques, methods of analysis and evaluation

Homework

Satchel quizzes set fortnightly

Revision for End of Unit Test

Extra Curricula:

This website has lots of great suggestions for activities you could try at home from making your own plastic to planting a small wildflower garden

<https://ypte.org.uk/topics/home-learning-packs>

Jobs

Sustainable energy consultant

Sustainable resource engineer

Aid development officer