

Subject	Year	Term
Environmental Science	13	1
Topic		
Agriculture		
Content (Intent)		
Prior Learning (Topic)		
<p><i>Lithosphere</i> <i>Soils</i> <i>Biotic and Abiotic factors</i> <i>Irrigation</i> <i>Biogeochemical cycles</i></p>		
Future Learning (Topic)		
<p>Agroecosystems</p> <p>Manipulation of food species to increase productivity: the advantages and disadvantages of the methods that are available to improve crop and livestock gene pools</p> <p>Social/economic/political factors which influence agricultural production</p> <p>Strategies to increase the sustainability of agriculture</p>		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p>Note taking</p> <p>Case Study: The effectiveness of ladybirds in biological control</p> <p>Presentations on strategies to increase sustainability of agriculture</p> <p>Completing past paper questions on agriculture</p> <p>Use the Mann-Whitney U test to compare the effect of pest control methods on crop growth.</p> <p>Calculate the standard deviation of a data set, eg of crop yield for a given nutrient input.</p> <p>Calculate energy efficiencies and energy ratios when comparing agricultural production systems.</p> <p>Practical: The effect of livestock on soil compaction</p> <p>Creating flow diagrams to represent the movement of pesticides through the food chain</p> <p>Case study: Hydroponics</p>	<p>- Homework Booklet marked and written feedback given</p> <p>Test marked, graded and feedback given</p>	

How can parents help at home?

Look at the topic specific resources on the VLE

Use appropriate YouTube channels

Encourage students to write revision cards

Look at the specification on the AQA website

Complete past papers (on the AQA website)

Take an interest! Ask your children what they have learnt and be curious about their learning.

Helpful further reading/discussion

Reading

Environmental Science
Chapter 11

Vocabulary Lists

Thermoregulation

Salinisation

Fertiliser

Pesticide

Organic/inorganic

Topography

Hydroponics

Endemic

Epidemic

Indigenous

Introduced

Monoculture

Polyculture

Transgenic

Genetic modification

Energetics

Intensive

Extensive

Autotrophic

Heterotrophic

Careers Links

See VLE