

Subject	Year	Term
Environmental Science	12	3
Topic		
Soils		
Content (Intent)		
Prior Learning (Topic)		
<p><i>pH</i> <i>Erosion</i> <i>Weathering</i></p>		
Future Learning (Topic)		
<p>How human activities affect soil fertility</p> <p>Causes of soil degradation and erosion</p> <p>Soil management strategies to increase sustainability</p>		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p>Note taking</p> <p>Practical: Measuring the organic content and moisture content of soils</p> <p>Practical: Determining the type of soil through texture analysis</p> <p>Practical: Does the top of the field have greater diversity of earthworms compared to the lower end of the school field?</p> <p>Practical: Tullgren funnel to measure soil biota</p> <p>Practical: Using soil sieves to determine soil type</p> <p>Calculate soil loss rates using the Universal Soil Loss Equation</p> <p>Plan a strategy to monitor and reduce soil erosion, within the context of global food supply problems.</p> <p>Compare the water and organic matter contents of soil from fields with different long-term management systems.</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 8

### Vocabulary Lists

**Macronutrients**

**Micronutrients**

**Capillary**

**Hygroscopic**

**Gravitational water**

**Biota**

**Humus**

**Aeration**

**Irrigation**

**Cultivation**

**Ploughing**

**Slumping**

**Contour ploughing**

**Terracing**

**Multicropping**

### Careers Links

See VLE