

Scheme of Learning: KS4 – Year 11

Topic Sequence:

| | |
|----------------------------|--------------------------|
| 1 | 2 |
| Resource management | Rivers and coasts |

Topic Overview:

Resource management is the topic that KS4 students will begin Year 11 with. The topic is divided into two whereby pupils will focus on food, energy and water in the UK and then widen their knowledge to focus on case studies focussed in South Africa to widen their knowledge of the challenges of water use in poorer areas of the world. The issue of food, energy and water in the UK is highly topical with recent global events including Brexit, inflation and COVID. These benefits students to have a sense of place and also an understanding of what is topical and is affecting their own lives. There are cross topic links between this unit and topics from Year 10 including Changing Economic World.

As an option the Department has chosen to focus on water at a national and international scale where we identify global inequalities in the water supply and how it can be more sustainable to reduce these inequalities. Furthermore, we will then identify large scale projects such as Kielder water and the Lesotho Highland water project and identify the benefits and drawbacks of these.

Lesson Sequence:

This topic is divided into two whereby pupils will have an overview of food, water and energy in the UK but also the global scale inequalities in the resource of water. In our first lesson the initial focus is on global inequalities related to food, water and energy. There is a global divide and pupils develop an understanding that a high volume of countries have water, food and energy insecurity. Students then focus on how this has impacted the UK and develop an understanding how recent challenges such as Brexit or COVID has impacted the UK. Map skills and exam skills are developed in this unit as we develop key words to gain marks under exam conditions.

As part of the AQA specification, departments have a choice to which unit to continue with. We have chosen to focus on water security and how we can improve this. Students will therefore understand a range of case studies focussed at a range of scales.

Initially we will identify factors that will contribute to water inequality such as physical factors such as climate or economic factors related to the wealth of a particular country. We will delve further into understanding and identifying the impacts of water security. Following this we will study two case studies where water supply has increased. This will focus on Kielder water which is northern England and understand that developing infrastructure you can move water from an area of water surplus to an area of water deficit. This is a focus at a local level but our next lesson will be identify the movement of water across borders and between countries. This focus is on a large scale project in Lesotho whereby water is being transferred to South Africa.

Finally, students will look at sustainable schemes and how local people in developing countries can improve their water supply. We will also identify how local people in Hampshire can conserve their own water supply. This topic links to climate change in Year 10.

Sequence of Lessons:

| | |
|-----------|------------------------------------------|
| 1 | Intro to resource management |
| 2 | Inequalities |
| 3 | Food in the UK |
| 4 | Food in the UK |
| 5 | Water in the UK |
| 6 | Water in the UK |
| 7 | Energy in the UK |
| 8 | Energy in the UK |
| 9 | Factors contributing to water inequality |
| 10 | The impacts of water insecurity |
| 11 | Increasing water supply |
| 12 | LHWP |
| 13 | Water conservation |
| 14 | Local sustainable scheme |
| 15 | Revision |
| 16 | Assessment |
| 17 | |
| 18 | |

Topic Resources:

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|-----------------------|---------------------|-----------------------------|----------------|
| Knowledge Map: | Resource management | Any other Resources: | Revision guide |
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Assessment:

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| Knowledge: | 14 question knowledge test |
| Application of Knowledge: | 38 marks related to application of knowledge |

Supportive Reading:

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| Any supported reading listed here | Articles relating to LHWP and Kielder water |
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