

Year 8 Unit 2 Overview - Pollution and Antarctica

Target grade for tests:

Dates: W/C 28th October 2019 to W/C 16th December 2019



You will learn about:

- Causes and effects of pollution
- Fossil fuels and the consequences of burning them
- The Greenhouse effect and how we reduce this
- Antarctica: how it is threatened and how it could be managed in the future

You will be able to:

- Describe the causes and effects of pollution
- Discuss the impacts of fossil fuels
- Compare the social, economic and environmental threats to Antarctica and predict how it could be managed in the future
- Use literacy (PEEL, PEAL), numeracy, (graph and data skills) and map skills

<p>Lesson Overview</p> <ol style="list-style-type: none"> 1. Pollution (Causes and Effects) 2. Fossil Fuels and Sustainability 3. Greenhouse Effect 4. Reducing Greenhouse Gases 5. Antarctica introduction 6. Antarctica Today - Why is it special? 7. Antarctica Future - the threats 8. Assessment/DIT 		<p>Key Words:</p> <p>Industrial Pollution- the damaging of the environment and people by industry</p> <p>Environment- the natural surroundings where people, plants and animals live</p> <p>Renewable resources – resources that can be used over and over again. They will never run out.</p> <p>Fossil fuels – non- renewable energy source from remains of ancient plants (coal, oil, natural gas)</p> <p>Sustainability - using the earth’s resources without harming the environment today so that they are still available for future generations</p> <p>Global warming - the warming of the earth’s atmosphere</p> <p>Greenhouse effect – the collection of greenhouse gases in the atmosphere which trap the sun’s heat</p> <p>Protect – to look after</p> <p>Exploit – to make use of something in an unfair way for profit</p> <p>Non-renewable resources- resources that cannot be used over and over again so will run out eventually.</p>				
<p>Suggested reading or support available on Showbie</p> <p>National Geographic, Dec 2012 ‘Good Gas, Bad Gas’</p> <p>Extraordinary thinning’ of ice sheets revealed deep inside Antarctica</p> <p>Geo-Factsheet 80 – Antarctica</p>		<p>Cross curricular</p> <p>SMSC: develop a critical understanding of the social impacts of pollution and moral responsibility for protecting fragile environments. Develop spiritual and cultural understanding of attitudes towards renewables.</p> <p>Literacy: use of PEEL to explain and connectives to compare and contrast information. Understanding of key geographical terms.</p> <p>Numeracy: Use of ratios and percentages in comparing effects of energy sources. Line graph construction and analysis. Working out mean averages.</p>				
Research	Note-making	Group work & discussion	Memorisation	Precision & accuracy	Independence	Reflection

