

Your climate your life -Teachers notes

The Big Surf

Surfing and climate change

Learning objectives:

- To identify the possible links between climate change and surfing
- To investigate the impact of sea level rise on the Gold Coast

	Activity	Learning	Resources
Starter	Meet a surfer What does a surfer think about climate change?	The image of the surfer can be used on an Interactive whiteboard where students can identify the hotspots to think about some of the pros and cons of climate change. As a follow-up they could read the profile and interview of a surfer and discuss his views.	Interactive image of a surfer Brief interview with the surfer

<p>Main activity</p>	<p>How could surfing be affected by sea level change?</p> <p>An investigation into the impact of sea level rise on the Gold Coast, Australia</p>	<p>This is an ICT based activity. Google Earth is used to investigate the likely impact of sea level change on the Gold Coast, Queensland, Australia. The outcome will be in the form of a report illustrated with sketches and Google Earth screenshots.</p> <p>Other geographical links: wave generation & types of waves / what makes a good surfing wave? / site and situation factors responsible for the growth of the Gold Coast / Tourism honey pots /</p>	<p>Google Earth files hosted on Juicy Geography http://www.juicygeography.co.uk/sealevel.htm</p>
<p>Plenary</p>	<p>Love island</p> <p>Find the “Love Island” that appeared briefly in the ITV show in Google Earth. Create a thought-provoking image.</p>	<p>Students are asked to use the picture of Tavarua, Fiji to create a thought provoking image about sea level change. They could use one of the tools at fd’s flickr toys, for example the “Motivator”, “Magazine Cover”, “Movie Poster” or “Captioner”. There is an example if required. Tavarua is home to one of the world’s best waves nicknamed “Cloud break”</p>	<p>Tavarua picture</p> <p>Google Earth placemark</p> <p>Flickr Toys website</p> <p>Example plenary outcome</p>

How sustainable is surfing?

Learning objectives:

- To understand the environmental impacts of surfboard manufacture
- To consider the competition to manufacturing industries from the Far East

	Activity	Learning	Resources
Starter	A sustainable surfboard? Mystery picture How is a surfboard made? Short film	<p>The video of a surfboard shaper at work could be viewed on the Interactive whiteboard, followed by discussion of the images of the Eden Project board.</p> <p>Students are asked to consider the following questions: How may the Eden board be different to a traditional board. Is it possible to make a completely sustainable board? The answer is yes! http://www.driftmagazine.co.uk/gnewsread~id~236.htm What are environmental impacts of surfboard manufacture? (transport, toxic chemicals etc.) http://sport.guardian.co.uk/news/story/0,10488,1541560,00.html</p>	<p>Video of a shaper</p> <p>Picture of Eden project surfboard</p> <p>Websites indicated</p>

<p>Main Activity</p>	<p>Why did Grubby Clark close his factory?</p> <p>A Mystery activity</p>	<p>This is a mystery activity for paired / group work. Students have to try to work out the reasons for the sudden closure of the California factory that produced foam for 90% of the world's surfboards.</p> <p>Other geographical links: Manufacturing industry / concept of cottage industry vs mass production / competition between Far Eastern imported boards and US / European products. Pollution</p>	<p>Introductory image</p> <p>Download 'Mystery Activity'</p>
<p>Plenary</p>	<p>Drift magazine</p> <p>Analyse the claims of the eco-friendly magazine</p>	<p>Visit the Drift magazine website.</p> <p>Students have to decide if this form of publishing is a green alternative to traditional magazines. What are the pros and cons?</p> <p>Interested students may want to speculate on the future of other sport in the 'Find out more' section.</p>	<p>Drift magazine website http://www.driftmagazine.co.uk/</p> <p>Download 'Extreme sports – the future'</p>