

Your climate your life -Teachers notes

Beating the Heat

What to wear

Learning objectives:

- To investigate possible future temperature and precipitation
- To use and interpret data
- To use data as evidence to justify decisions

	Activity	Learning	Resources
Starter	Clothes for the climate? Interactive drag and drop	This interactive is designed for the students to think about the climate in the UK and how it influences the clothes we wear. It also provides an opportunity to discuss the differences between the day to day weather, seasons and the climate.	Interactive drag and drop

<p>Main Activity</p>	<p>Scorching summers, wetter winters</p> <p>Calculate future temperatures and create climate graphs</p>	<p>Students should be given the temperature and rainfall maps to consider what the changes may be in 2020,2050 and 2080 if this has not already been covered in the section on ‘A changing climate’.</p> <p>These are future scenarios based on low emissions and high emissions of CO2 for the summer and winter. It is important that students are made aware that these are predictions based on climate models. Students calculate the average temperatures for their local area using data from the Met Office and use this to create a climate graph. An example is given to help students complete the chart.</p>	<p>Download temperature and precipitation maps</p> <p>For a full report see ‘Climate Change Scenarios for the United Kingdom: The UKCIP02 Briefing Report’.</p> <p>http://data.ukcip.org.uk/resources/publications/documents/UKCIP02_briefing.pdf</p> <p>Website www.metoffice.gov.uk</p> <p>Download chart</p>
<p>Plenary</p>	<p>Fact or fiction</p> <p>Decide what is true or false</p>	<p>This plenary reinforces the learning in the previous activity where students use their climate graphs to justify their decisions.</p>	

Changing lives

Learning objectives:

- To understand how extreme weather events such as heat waves affect the population
- To consider how different places have adapted to heat
- To develop an awareness of health risk in extreme heat

	Activity	Learning	Resources
Starter	And here is the weather... Write a weather forecast	Students use the heat wave of 2006 to write and broadcast a short weather forecast. They could find out what the average temperature was for their local area in July/August from the Met Office.	

<p>Main Activity</p>	<p>Extreme events</p> <p>How people are affected</p>	<p>In groups, students can read the different articles on extreme weather events to extract information on people who are most affected, people who can make a difference and ways the population can stay healthy. The mind-maps can be downloaded to help students think through this activity.</p> <p>Heat wave survival advice updated (http://news.bbc.co.uk/1/hi/health/4535767.stm)</p> <p>Boiled alive (http://www.guardian.co.uk/science/story/0,,1830231,00.html)</p> <p>Over 11,000 dead in French heat (http://news.bbc.co.uk/1/hi/world/europe/3190585.stm)</p> <p>Violent storms end UK's heat wave (http://news.bbc.co.uk/1/hi/uk/4124752.stm) http://news.bbc.co.uk/1/hi/world/asia-pacific/4598329.stm</p> <p>Each group is then given a role card – there are 7 roles in total. Groups or individuals can be asked to present to the rest of the class who can ask them questions in role.</p>	<p>Websites indicated</p> <p>Download Mind-maps</p> <p>Download role cards</p>
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<p>Plenary</p>	<p>Winners and losers</p> <p>Decide whose lives are most affected by climate change</p>	<p>Students can work through each column and row for each person and decide who is the most affected. The numbers can be recorded as a class on an interactive whiteboard.</p> <p>The 'Find out more' can be downloaded as a case study on how the Japanese introduced a Cool Biz campaign in 2005 to beat the heat. This could be used to help students consider how we may have to adapt to extreme heat in the UK</p>	<p>Interactive activity</p> <p>Download case study</p>
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