

Environmental Change		How is our environment changing, and how can we help protect the future of our part of Wales?																									
What is climate change and why does it matter?	<b>Essential Questions:</b> What is climate change and what causes it? How has the climate changed over time? How do human activities affect the climate?		How does climate change affect plants and animals? How might climate change affect people around the world? What changes can people make to help the planet? How can our choices make a difference?																								
<b>H&amp;WB</b> 	<b>LLC</b> 	<b>Humanities</b> 	<b>M&amp;N</b> <table border="1"> <caption>The Scope of Global Food Waste</caption> <thead> <tr> <th>Country</th> <th>Annual Household Food Waste (Figures in Selected Countries)</th> </tr> </thead> <tbody> <tr> <td>China</td> <td>36,642,210</td> </tr> <tr> <td>India</td> <td>18,762,183</td> </tr> <tr> <td>United States</td> <td>10,558,891</td> </tr> <tr> <td>Japan</td> <td>4,300,224</td> </tr> <tr> <td>Germany</td> <td>3,818,176</td> </tr> <tr> <td>France</td> <td>3,111,024</td> </tr> <tr> <td>United Kingdom</td> <td>2,500,225</td> </tr> <tr> <td>Russia</td> <td>2,100,000</td> </tr> <tr> <td>Spain</td> <td>1,011,814</td> </tr> <tr> <td>Australia</td> <td>1,000,000</td> </tr> </tbody> </table>	Country	Annual Household Food Waste (Figures in Selected Countries)	China	36,642,210	India	18,762,183	United States	10,558,891	Japan	4,300,224	Germany	3,818,176	France	3,111,024	United Kingdom	2,500,225	Russia	2,100,000	Spain	1,011,814	Australia	1,000,000	<b>Sci&amp;Tech</b> <p>A 7th grader's proposal on reducing the Ecological Footprint.</p> <ul style="list-style-type: none"> <li>Recycle!</li> <li>Use less plastic!</li> <li>Use less paper!</li> <li>Use less energy!</li> <li>Use less water!</li> <li>Use less meat!</li> <li>Use less cars!</li> <li>Use less air!</li> <li>Use less money!</li> <li>Use less time!</li> <li>Use less space!</li> <li>Use less love!</li> <li>Use less hate!</li> <li>Use less war!</li> <li>Use less peace!</li> <li>Use less love!</li> <li>Use less hate!</li> <li>Use less war!</li> <li>Use less peace!</li> </ul>	<b>Expressive Arts</b> 
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<b>To help me to:</b> Explore what matters to me and understand how I contribute to my community and world.. Make informed choices and understand the consequences of these choices. Care for the environment and recognise the benefits of time spent outdoors. Reinforce confidence, resilience, and belief in my ability to contribute to real change.	<b>To help me to:</b> Use subject-specific vocabulary with growing accuracy and confidence. Distinguish between fact and opinion and write with objectivity. Write from a different perspective conveying feelings, experiences, and viewpoints. Explain how and why things happen. Justify their suggested action with clear reasoning and relevant information.	<b>To help me to:</b> Sequence events over long periods and understand that changes happen over time. Recognise how human actions affect the natural world. Appreciate how cultural, economic, and environmental factors shape decision-making in different locations. Consider ethical dimensions showing initiative, leadership, and collaboration	<b>To help me to:</b> Collect real data and interpret patterns and trends. Explore large figures and develop confidence working with thousands, hundred -thousands, and millions. Use mathematical evidence to explain patterns and make predictions. Calculate total cost, savings, and value for money.	<b>To help me to:</b> Plan and conduct simple, fair tests and make predictions based on prior knowledge.. Use scientific vocabulary with increasing accuracy. Understand that evidence can vary in reliability, Use devices, apps, or sensors to collect data and represent it visually. Draw evidence-based conclusions.	<b>To help me to:</b> Explore how artists communicate meaning, emotion, and messages through subject matter. Experiment with framing, focus, angles, and editing to enhance meaning. Explore how visual art can drive activism. Collaborate to develop ideas, negotiate roles, and combine artistic elements.																						

## My learning experiences

<p>Ethical Dilemmas linked to Climate change - Discussion Circle</p> <p>'One small change' Each child chooses one small change they can make in their daily lives that would have a positive impact on climate change.</p> <p>Exploring the immediate and local environment to help understand the benefits of green spaces - on our well-being as well as the environment.</p>	<p>Create a "climate detective" notebook explaining key vocabulary</p> <p>Non chronological report — Climate change and its impact.</p> <p>Children write letters from the viewpoint of a child living in a climate-affected area.</p> <p>Write explanatory texts on links between recycling and Reducing Greenhouse Gas Emissions</p> <p>Present one small change idea suggestions to new Eco committee.</p>	<p>Timeline investigation: build a visual timeline from the ice age to today,</p> <p>Investigate links between recycling and climate change</p> <p>Compare Cardiff's climate-action goals with worldwide cities.</p> <p>Investigate impact of climate change around the world.</p> <p>What small changes can we make in our school - develop school eco committee</p>	<p>Collect and analyse audit data (lights left on, waste, device use) at school.</p> <p>Use data from One Planet Cardiff on Cardiff's carbon emissions.</p> <p>Read and compare climate data over time, Interpreting percentages, trends, reductions</p> <p>Budget Challenge Which 'one small change' idea provides best value for money?</p>	<p>Investigate Greenhouse gases through experiments.</p> <p>Explore the differences between weather and climate.</p> <p>Create stations with different types of climate change evidence.</p> <p>Human Footprint Mapping Examine everyday activities (transport, heating, food, electricity) to create carbon footprint maps/graphs</p> <p>Enquiry: How did human actions impact the environment during covid?</p>	<p>Exploring the artworks of environmental photographers like Sean Gallagher  <a href="https://www.environmentalstories.com/Sean-Gallagher-Photographer-Filmmaker-Beijing-China">Environmental Stories - Sean Gallagher - Photographer &amp; Filmmaker - Beijing, China</a>            Recreate own climate change photographs</p> <p>Focus on Bryce Davies work  <a href="https://www.wwf.org.uk/wales/streetart">https://www.wwf.org.uk/wales/streetart</a> -</p> <p>Designing posters or creative campaigns about responsible choices.</p> <p>Use <a href="https://www.theatrcymru.org.uk/prosiect-40c">Theatr Cymru   Prosiect 40°C</a> as inspiration to device drama/ Soundscape of a Changing Planet</p>
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**Suggested novels:** The Last Bear.

**Suggested Launch:** Exploring the environment - audit on how outdoor spaces help our well- being.

**Suggested Landing:** One small change - Eco committee reform. Trees bordering nature reserve. [Home - Keep Wales Tidy](#) Parent engagement: come and help plant the trees.

**Pupil voice opportunities:** Independent enquiry impact of lockdown/covid on environment [Environment: Wales second in the world for recycling](#)

[rates - BBC News](#)