



# Sustainability

## Stage 1: Identifying learning need

Authentic context for learning	
<p><b>Big question / global issue / big idea:</b></p> <p>Sustainability is crucial for preserving the planet and our finite natural resources like water, air, and soil.</p>	<p><b>Why this learning matters for our young people:</b></p> <ul style="list-style-type: none"><li>• Our natural resources are finite and cannot be replenished.</li><li>• For our own survival, we need to adopt behaviours that sustainably manage the environment and natural resources.</li><li>• Sustainability mitigates key issues like climate change, pollution, and biodiversity loss.</li><li>• Sustainability is a key factor in ensuring that future generations will have access to vital natural resources and live in a healthy planet.</li><li>• We are all responsible for the sustainable management and use of natural resources.</li></ul>
Making meaning	
<p><b>Understandings:</b></p> <p>Learners should come to understand that:</p> <ul style="list-style-type: none"><li>• Overexploitation of natural resources (when resources are consumed faster than they can be replenished), can lead to the depletion of natural resources, environmental degradation and species extinction.</li><li>• As the human population increases, the amount of natural resources we use rises.</li><li>• Increased population results in increased farming and manufacturing, leading to more greenhouse gas emissions, unsustainable energy use, and deforestation.</li><li>• Sustainable behaviours are not simply nice to do, but promote a balance between economic growth, social inclusion, and environmental protection.</li><li>• Pro-climate and pro-environmental behaviour change is everyone's responsibility and key to our survival.</li></ul>	<p><b>Underpinning Concepts:</b></p> <p>Learner's understanding will be founded upon:</p> <ul style="list-style-type: none"><li>• Ecosystem services</li><li>• Climate change</li><li>• Resilience</li><li>• Society</li><li>• Lifestyles</li><li>• Consumerism</li><li>• Pollution</li><li>• Causes and consequences</li><li>• Health impacts</li><li>• Biodiversity</li><li>• Food systems</li><li>• Energy systems</li><li>• Transport systems</li><li>• Economic systems</li></ul>



## Stage 2: Identifying progression

Prior knowledge, skills and understanding		
Learners already know:	Learners already can:	Learners already understand:

Purposes of learning	Transferable of learning
<p><b>Learners can become increasingly effective by:</b></p> <ul style="list-style-type: none"><li>• Engaging with contemporary issues based upon their knowledge and values.</li><li>• Building up a body of knowledge and having the skills to connect and apply that knowledge in different contexts.</li><li>• Thinking creatively to reframe and solve problems.</li><li>• Facing and overcoming challenge.</li><li>• Understanding and considering the impact of their actions when making choices and acting.</li><li>• Showing their commitment to the sustainability of the planet.</li></ul>	<p><b>Learners might use their learning in other contexts by:</b></p>



## Knowledge and skill acquisition

### Learners should broaden and deepen their knowledge of:

- Sustainability, what is it?
- How we use natural resources.
- How we sustainably manage natural resources.
- The impacts of overexploitation.
- How does sustainability mitigate the effects of climate change?
- How does the sustainable management of natural resources impact human health.
- How human actions can affect interrelationships between the natural world and people.
- Pro-climate, pro-environmental behaviours.

### LNF/DCF/AoLE:

## Essential questions

### Students should consider and reconsider:

#### Topic Level Questions:

- How does the way we sustainably manage natural resources support us in adapting to the impacts of the climate and nature emergencies?
- How does the overuse of natural resources impact planetary and human health?
- What impact does society and lifestyle have on the natural environment?
- How should individuals and society act to reduce their impact on the natural world?

#### Unit Level Questions:

- How do we reduce our impact on nature?
- How do we prevent our society and lifestyle from overusing natural resources?
- What does the future look like if we don't change and continue to exacerbate climate change?
- What does the future look like if we make positive changes, act sustainably, and help nature thrive?
- How do we influence sustainable development, pro-climate, pro-environmental behaviour in others?



## Stage 3: Demonstrating learning

Learner portfolio	Foci for progression	Evidence of learning
<p><b>Learners might demonstrate their understanding by:</b></p> <ul style="list-style-type: none"><li>• Assessing and recording data about their own/their family's/ their setting's consumption of natural resources, products and services over a given period.</li><li>• Making an action plan to show how their own/their family's/ their setting's use of natural resources could be reduced.</li><li>• Setting up their own sustainability project.</li><li>• Researching information and data on the sustainable management of natural resources locally, nationally, or globally.</li><li>• Presenting information on the causes and consequences of failing to adopt sustainable behaviours.</li><li>• Present information and actions taken to maximise their/their family's/their setting's sustainable activity to a wider audience.</li><li>• Comparing the sustainable management and use of natural resources between Wales and other countries.</li></ul>	<p><b>Learners should make progress in:</b></p> <ul style="list-style-type: none"><li>• Their effectiveness as learners.</li><li>• The breadth and depth of their knowledge.</li><li>• Their understanding of the ideas of the AoLE.</li><li>• The sophistication of their skills.</li><li>• Their ability to transfer understanding to new contexts.</li></ul>	<p><b>What might you see / hear / read that demonstrates progression?</b></p>

[illegible]



**To support further learning about sustainability why not go on a site visit to:**

- A local sustainable energy producer.
- Your local waste management facility.
- A local recycling centre.
- A local farm.

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