

Wales - Curriculum Links 12-14 and 14-16

Education in sustainability in the Department for Children, Education, Lifelong Learning and Skills' (DCELLS) revised Welsh curriculum is chiefly explored through three subject areas: Personal and Social Education, Geography (at ages 11 – 14) and Science. The resources are also pertinent to English, Mathematics, Information and Communication Technology, and Design and Technology.

Most fact and work sheets relate to all learning outcomes, however we have included suggestions of specific fact/work sheets (of our content for ages 12 to 14 and 14 to 16) where particularly relevant. Each fact sheet has an accompanying work sheet with the corresponding number, so please see both fact and work sheet suggestions for material relevant to that learning outcome.

There is also a fun interactive quiz covering the programme's five themes: 1. Travel, 2. Buildings, 3. Environment Issues, 4. Energy and Recycling, and 5. Communities. Each of these themes can be practised independently to cover a particular outcome or subject. Please note that the numbers in the resource links below also correspond to the relevant themes in the quiz (e.g 3.2 relates to Environment Issues).

Relevant links to the DCELLS Framework for Children's Learning for 12 to 14 year olds in Wales

Learning outcomes	Related resources
PSE	
Develop a sense of personal responsibility towards local and global issues, <i>e.g. protecting biodiversity</i>	All fact/works sheets relate to this objective.
The key issues of sustainable development and global citizenship, <i>e.g. climate change</i> , and the need to reflect on personal decisions about lifestyle choices Global issues which threaten the planet, <i>e.g. inequalities of wealth and differences in health provision</i>	All fact/works sheets relate to this objective.
How conflict can arise from different views about global issues and be aware of the role of pressure groups	Suggestion: <ul style="list-style-type: none"> • 1.1 for ages 12-14 • 1.3, 3.2, 3.3, 3.4, 4.1, 5.1, 5.2, 5.3 for ages 14-16
GEOGRAPHY	
Explain how and why places and environments change and identify trends and future implications, <i>e.g. population increase, climate change, globalisation</i>	All fact/works sheets relate to this objective. Suggestion: <ul style="list-style-type: none"> • 2.1, 2.2, 3.4, 3.5 for ages 12-14 • 2.3, 3.1, 3.2, 3.4, 3.5, 4.1, 5.1, 5.2, 5.3 for ages 14-16
People as consumers: the impacts on and changes in economic activity	All fact/works sheets relate to this objective. Suggestion: <ul style="list-style-type: none"> • 1.2, 3.3, 4.2, 4.3 for ages 12-14 • 3.3, 3.5, 4.2 for ages 14-16

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Threatened environments: characteristics of, and possibilities for, their sustainable development	All fact/works sheets relate to this objective.
Tomorrow's citizens: issues in Wales and the wider world of living sustainably and the responsibilities of being a global citizen	All fact/works sheets relate to this objective.
How and why is this place/environment changing? What might happen next, in the short/long term and why?	All fact/works sheets relate to this objective. Suggestion: <ul style="list-style-type: none"> • 3.5 for ages 12-14 • 3.5, 4.2 for ages 14-16
How and why is this place/environment/feature connected to and interdependent with other places/environment/features?	All fact/works sheets relate to this objective.
How do environments and people interact?	All fact/works sheets relate to this objective.
How can changes be sustainable and why is it important for this place/environment?	All fact/works sheets relate to this objective.
How can my actions and those of other people make a difference locally, nationally and globally?	All fact/works sheets relate to this objective.
SCIENCE	
How human activity affects the global environment, <i>e.g. acid rain, greenhouse effect</i> , and the measures taken to minimise any negative effects and monitor them, <i>e.g. by Earth observation satellites</i>	All fact/works sheets relate to this objective. Suggestion: <ul style="list-style-type: none"> • 1.1, 1.2, 1.3, 2.2, 3.2, 3.3, 3.4, 4.1 for ages 12-14 • 1.1, 1.2, 1.3, 2.3, 3.1, 3.2, 3.5, 4.1 for ages 14-16
The properties of sustainable materials and how these are related to their uses in everyday life, <i>e.g. in the construction and manufacturing industries</i> , and the importance of sustainability	All fact/works sheets relate to this objective. Suggestion: <ul style="list-style-type: none"> • 2.3 for ages 12-14 • 2.3 for ages 14-16
The conservation of energy and ways in which energy can be stored	All fact/works sheets relate to this objective. Suggestion: <ul style="list-style-type: none"> • 4.1, 4.2 for ages 12-14 • 4.1 for ages 14-16
How renewable and non-renewable energy resources are used to generate electricity and the implications of decisions made about their use	Suggestion: <ul style="list-style-type: none"> • 4.1, 4.2 for ages 12-14 • 4.1 for ages 14-16
Technologies under development, which may lead to more efficient use of energy resources or using them in new ways, <i>e.g. hydrogen-powered cars, using cooking oil/gasohol, as replacements for diesel/petrol</i>	Suggestion: <ul style="list-style-type: none"> • 4.1, 4.2 for ages 12-14 • 1.3 for ages 14-16

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Wales - Curriculum Links 12-14 and 14-16 (cont'd)

Relevant links to the DCELLS Framework for Children's Learning for 14 to 16 year olds in Wales

Learning outcomes	Resource links
PSE	
Engage in practical involvement in the community	All fact/works sheets relate to this objective. Suggestion: <ul style="list-style-type: none"> • 5.2, 5.3 for ages 12-14
Recognise the rights of future generations to meet their basic needs	All fact/works sheets relate to this objective.
Take personal responsibility for changing their own lifestyle as a response to local and global issues	All fact/works sheets relate to this objective. Suggestion: <ul style="list-style-type: none"> • 1.1, 4.4 for ages 12-14
SCIENCE	
The effects of human activity on the environment can be assessed using living and non-living indicators	Suggestion: <ul style="list-style-type: none"> • 1.3, 3.4, 4.1 for ages 12-14 • 1.3, 3.1, 3.4, 3.5, 4.1 for ages 14-16
Energy transfers can be measured and their efficiency calculated, which is important in considering the economic costs and environmental effects of energy use	Suggestion: <ul style="list-style-type: none"> • 2.1, 3.4. for ages 12-14 • 3.4, 4.1 for ages 14-16