

KS3 Geography teacher guidance for National Education Nature Park resources

This document helps teachers integrate resources from the National Education Nature Park into their existing Geography curriculum.

These ready-made resources can be easily adapted to meet the needs of learners. They provide simple ways to incorporate nature-focused activities into lessons.

Geography topic/theme	Nature Park weblink	Resource summary	Possible learning ideas	National Curriculum link
Weather & Climate: Climate Change	Carbon cycle passport	An investigation into carbon's movement through different aspects of the carbon cycle, including before and after human interference.	Include as a whole class activity at the end of teaching about the carbon cycle. The reflection tasks could be discussions on what happens to carbon throughout the cycle.	Physical geography relating to: ...weather and climate, including the change in climate from the Ice Age to the present...
	Emotional line graphs	Subjective view on responses to climate change based on different scenarios, resulting in a graphical representation.	Use throughout teaching about the carbon cycle (or climate change). It could serve as a method to check responses to scenarios involving climate as well as addressing climate anxiety. There is an opportunity for pupils to create a film about climate change. This could be included	Understand how human and physical processes interact to influence...environments and the climate.



			as a final summary project on climate change.	
	Interpreting climate models	Explore ways climate data is interpreted and how it can be used to help predict the future.	Use as part of an investigation into past, present and future climates. Rainfall and temperature maps of the UK are readily available (i.e. in atlases and online) if needed.	Physical geography relating to...weather and climate, including the change in climate from the Ice Age to the present...
	Climate change	Climate content resource. It includes how climate differs between places, the causes, and the future of climate change.	Whole topic guideline if you are new to or wish to refresh your topic on climate change. There are six sessions which could be separated into separate lessons or pick out the ones you want to use which suit your class's needs.	Physical geography relating to...weather and climate, including the change in climate from the Ice Age to the present... Understand how human and physical processes interact to influence...environments and the climate.
	What do you want to know about climate change?	Q&A-style resource to help deepen understanding and/or challenge misconceptions about climate change.	This could be used as part of a revision or end of topic recap.	Physical geography relating to...weather and climate, including the change in climate from the Ice Age to the present... Understand how human and physical processes interact to



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				influence...environments and the climate.
	Climate change snakes and ladders	Students design a game focused on the actions and impacts of climate change.	This could be used as part of a revision or end of topic recap activity.	Physical geography relating to...weather and climate, including the change in climate from the Ice Age to the present... Understand how human and physical processes interact to influence...environments and the climate.
	Exploring climate change data	Data interpretation activity evaluating the effect of humans on the climate before and after the industrial revolution.	This task could be used to help develop confidence in data analysis (incorporating it into the theme of climate change). Have discussions of causes, effects and potential solutions to the results.	Use fieldwork...analyse and draw conclusions from geographical data...
	Modelling future climate in the UK	Data interpretation to look at potential climate difference in the UK.	Help students build confidence in data interpretation to make climate predictions.	Use Geographical Information Systems (GIS) to view, analyse and interpret places and data.



	Investigate weather and microclimates	On-site investigation looking at how elements of a habitat could thrive in different parts of the school grounds based on microclimatic conditions.	Fieldwork investigation ideal for KS3. One lesson to prep and introduce the investigation (drawing in current knowledge and understanding). One lesson for investigation. One to two lessons for data presentation, analysis and conclusion.	Use Geographical Information Systems (GIS) to view, analyse and interpret places and data. Use fieldwork to collect, analyse and draw conclusions from geographical data, using multiple sources of increasingly complex information. Understand how human and physical processes interact to influence and change landscapes, environments and the climate; and how human activity relies on the effective functioning of natural systems.
Ecosystems	Find that plant!	A search tool to identify relevant plants for the school site.	Could be used as part of a topic on ecosystems looking at localised biotic components and an example of plant adaptations. In addition, pupils can extract information to make suggestions on possible plant life for their school.	Understand how human and physical processes interact to influence and change landscapes, environments and the climate; and how human activity relies on the effective functioning of natural systems.



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	<p>Mapping your site can be used with or without Record wildlife on your site, Create your site boundary or Mapping changes to your site</p>	<p>A digital (and printable) toolkit exploring existing biodiversity on the school site.</p>	<p>This would be a good on-site fieldwork opportunity to explore biodiversity as part of an investigation into localised ecosystems.</p> <p>Post fieldwork activities could include creating food webs/chains based on the results of the investigation. In addition, if the results found there was limited biodiversity, there could be suggestions to improve this as part of a whole-school initiative. This could be followed up using the 'Mapping Change' tool.</p>	<p>Understand how human and physical processes interact to influence and change landscapes, environments and the climate, and how human activity relies on the effective functioning of natural systems.</p> <p>Use Geographical Information Systems (GIS) to view, analyse and interpret places and data.</p> <p>Use fieldwork in contrasting locations to collect, analyse and draw conclusions from geographical data, using multiple sources of increasingly complex information.</p>
Geographical Skills	<p>Using overlays</p>	<p>Practical exercise to help map the school site without the use of technology.</p>	<p>Can be used as part of the microclimate investigation to show where specific plants could be located on the school site.</p>	<p>Interpret...topographical and other thematic mapping, and aerial and satellite photographs</p>

Note: The ellipses (...) show where wording from the National Curriculum has been omitted.